

# EXHIBIT 15



Data Sheet

# Barracuda®

The Power of One

## Key Advantages

- Double your capacity and drive down costs with the industry's first 1TB-per-disk hard drive technology.
- Up to 3TB capacity with 7200-RPM performance. Why compromise?
- SATA 6Gb/s interface optimizes burst performance
- Seagate AcuTrac™ servo technology delivers dependable performance, even with hard drive track widths of only 75 nanometers.
- Seagate OptiCache™ technology boosts overall performance by as much as 45% over the previous generation.
- Seagate SmartAlign™ technology provides a simple, transparent migration to Advanced Format 4K sectors.
- Free Seagate DiscWizard™ software allows you to install a 3TB hard drive in Windows, including XP, without UEFI BIOS.

## Best-Fit Applications

- Desktop or all-in-one PCs
- Home servers
- PC-based gaming systems
- Desktop RAID
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)





Specifications	3TB <sup>1</sup>	2TB <sup>1</sup>	1.5TB <sup>1</sup>	1TB <sup>1</sup>	750GB <sup>1</sup>	500GB <sup>1</sup>	320GB <sup>1</sup>	250GB <sup>1</sup>
Model Number	ST3000DM001	ST2000DM001	ST1500DM003	ST1000DM003	ST750DM003	ST500DM002 <sup>2</sup>	ST320DM000 <sup>2</sup>	ST250DM000 <sup>2</sup>
Interface Options	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ
<b>Performance</b>								
Spindle Speed (RPM)	7200	7200	7200	7200	7200	7200	7200	7200
Cache, Multisegmented (MB)	64	64	64	64	64	16	16	16
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5	6.0/3.0/1.5
Seek Average, Read (ms)	<8.5	<8.5	<8.5	<8.5	<8.5	<11	<11	<11
Seek Average, Write (ms)	<9.5	<9.5	<9.5	<9.5	<9.5	<12	<12	<12
Average Data Rate, Read/Write (MB/s)	156	156	156	156	156	125	125	125
Max Sustained Data Rate, OD Read (MB/s)	210	210	210	210	210	144	144	144
<b>Configuration/Organization</b>								
Heads/Disks	6/3	6/3	4/2	2/1	2/1	2/1	2/1	1/1
Bytes per Sector	4096	4096	4096	4096	4096	4096 or 512 <sup>2</sup>	4096 or 512 <sup>2</sup>	4096 or 512 <sup>2</sup>
<b>Voltage</b>								
Voltage Tolerance, Including Noise (5V)	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%	+10%/–5.0%
Voltage Tolerance, Including Noise (12V)	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%
<b>Reliability/Data Integrity</b>								
Contact Start/Stop Cycles	—	—	—	—	—	50,000	50,000	50,000
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000	—	—	—
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Power-On Hours	2400	2400	2400	2400	2400	2400	2400	2400
<b>Power Management</b>								
Startup Power (A)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Operating Mode, Typical (W)	8.0	8.0	6.70	5.90	5.90	6.19	6.19	6.19
Idle2 Average (W)	5.40	5.40	4.50	3.36	3.36	—	—	—
Idle Average (W)	—	—	—	—	—	4.60	4.60	4.60
Standby Mode (W)	0.75	0.75	0.75	0.63	0.63	0.79	0.79	0.79
Sleep Mode (W)	0.75	0.75	0.75	0.63	0.63	0.79	0.79	0.79
<b>Environmental</b>								
Temperature								
Operating (ambient min °C)	0	0	0	0	0	0	0	0
Operating (drive case max °C)	60	60	60	60	60	60	60	60
Nonoperating (ambient °C)	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70	–40 to 70
<b>Physical</b>								
Height (mm/in)	26.11/1.028	26.11/1.028	26.11/1.028	20.17/0.7825	20.17/0.7825	19.98/0.787	19.98/0.787	19.98/0.787
Width (mm/in)	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0
Depth (mm/in)	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787
Weight (g/lb)	626/1.38	626/1.38	535/1.18	400/0.88	400/0.88	415/0.92	415/0.92	415/0.92
Carton Unit Quantity	20	20	20	25	25	25	25	25
Cartons per Layer	40	40	40	40	40	40	40	40
Cartons per Pallet	8	8	8	8	8	8	8	8
<b>Special Features</b>								
Seagate OptiCache™ Technology	Yes	Yes	Yes	Yes	Yes	No	No	No
Seagate AcuTrac™ Technology	Yes	Yes	Yes	Yes	Yes	No	No	No
Seagate SmartAlign™ Technology	Yes	Yes	Yes	Yes	Yes	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

2 Seagate ships this drive in both 4K- and 512-byte sectors. SmartAlign technology is included on 4K sector drives. Both drives are functionally and physically equivalent.

[www.seagate.com](http://www.seagate.com)

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# **EXHIBIT 16**





# Storage Solutions Guide

JULY 2012 | AMER



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Save your  
social life.

Protect your online  
photos and more with  
**Backup Plus** drives.















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# External Storage

## At-a-Glance Product Comparison

Direct Attached/ Portable	BACKUP PLUS				SLIM		EXPANSION™		GOFLEX®		
											
	Backup Plus Portable	Backup Plus Portable for Mac	Backup Plus Desktop	Backup Plus Desktop for Mac	Slim Portable	Slim Portable for Mac	Expansion Portable	Expansion Desktop	GoFlex for Mac	GoFlex Pro for Mac	GoFlex Slim for Mac
PERFECT FOR	Protecting and sharing digital memories		Keeping your digital life safe and sound		Thin storage that fits—and goes—anywhere		Protecting and sharing your digital life		Compact storage on-the-go		Sleek, high-performance storage
DESCRIPTION	Store and back up the content on your social networks with these flexible, portable drives. PC or Mac.		These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.		This ultra-thin metal design is the world's sleekest portable external hard drive. PC or Mac.		Expansion drives allow you to instantly add more storage space to your computer and take large files with you.		These ultra-portable, ultra-upgradable drives make it easy to store and protect all your files, automatically and continuously. PC or Mac.		A sleek design and Time Machine compatibility, no high-performance portable hard drive is slimmer. PC or Mac.
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Wireless Mobile	GOFLEX
	
	GoFlex Satellite™
PERFECT FOR	Wireless storage for your tablet
DESCRIPTION	Take your media library on the go and stream it wirelessly to your iPad, Android tablet and smartphone. PC or Mac.
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Network Attached	GOFLEX	BLACKARMOR®		
				
	GoFlex Home	BlackArmor NAS 440	BlackArmor NAS 400	BlackArmor NAS 220
PERFECT FOR	Wireless centralized home storage	Full-system backup, RAID 0, 1, 5, 10 or JBOD		Full-system backup, RAID 0 or 1
DESCRIPTION	This network storage system supports the external storage needs of every computer in your home. PC or Mac.	A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations.		A network attached storage solution designed to provide centralized storage and data backup.
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# External Storage Solutions

Seagate external storage solutions are sleek, dependable and ultra-portable products that let your customers automatically and continuously store digital family photos, protect critical business data, back up multiple computers on a small network, or share and store videos and music.

## Backup Plus

The Backup Plus portable drive is the simple way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Thunderbolt technology or FireWire 800 upgrade allows higher transfer speeds

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBU1000100	USB 3.0	● Black	PC, Mac
1TB	STBU1000101	USB 3.0	● Silver	PC, Mac
1TB	STBU1000102	USB 3.0	● Blue	PC, Mac
1TB	STBU1000103	USB 3.0	● Red	PC, Mac
750GB	STBU750100	USB 3.0	● Black	PC, Mac
500GB	STBU500100	USB 3.0	● Black	PC, Mac
500GB	STBU500101	USB 3.0	● Silver	PC, Mac
500GB	STBU500102	USB 3.0	● Blue	PC, Mac
500GB	STBU500103	USB 3.0	● Red	PC, Mac
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			



# Backup Plus for Mac

The Backup Plus portable drive for Mac is the simple way to protect and share your entire digital life.

### Key Advantages

- Mac OS and Time-Machine ready out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Easily increase transfer speeds by upgrading to Thunderbolt technology.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
1TB	STBW1000100	USB 2.0	● Silver/ ○ White	Mac, PC
500GB	STBW500100	USB 2.0	● Silver/ ○ White	Mac, PC
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			

# Backup Plus Desktop for Mac

The Backup Plus desktop drive for Mac is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Mac OS and Time Machine ready right out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Up to 4TB capacity for a lifetime of memories

### Best-Fit Applications

- Back up all your important files.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
4TB	STCB4000100	FireWire 800/ USB 2.0	● Black/ ● Silver	Mac, PC
3TB	STCB3000100	FireWire 800/ USB 2.0	● Black/ ● Silver	Mac, PC
2TB	STCB2000100	FireWire 800/ USB 2.0	● Black/ ● Silver	Mac, PC
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)			
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

# Backup Plus Desktop

The Backup Plus desktop drive is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible, built-in backup options
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Up to 4TB capacity for a lifetime of memories
- Increase transfer speeds by upgrading to Thunderbolt technology or FireWire 800.

### Best-Fit Applications

- Back up all your important files.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
4TB	STCA4000100	USB 3.0	● Black	PC, Mac
3TB	STCA3000100	USB 3.0	● Black	PC, Mac
2TB	STCA2000100	USB 3.0	● Black	PC, Mac
1TB	STCA1000100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)			
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

# Slim Portable

The Seagate Slim portable drive is our thinnest, sleekest way yet to back up the things that are important to you.

### Key Advantages

- World’s slimmest portable external hard drive
- Protects your stuff with easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
500GB	STCD500100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			

# Slim Portable for Mac

The Seagate Slim portable drive for Mac combines our thinnest, sleekest form factor in a Time Machine-ready drive.

### Key Advantages

- World’s slimmest portable external hard drive
- Mac OS and Time Machine ready out of the box
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that’s posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
500GB	STCF500100	USB 2.0	● Black	Mac, PC
PRODUCT DIMENSIONS	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			

# Expansion™ Desktop

The Expansion desktop drive provides extra storage for your ever-growing collection of files.

### Key Advantages

- Simple and straightforward setup
- No software to install and nothing to configure
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Improve performance on your computer’s internal drive by freeing up space on your internal drive.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
3TB	STBV3000100	USB 3.0	● Black	PC
2TB	STBV2000100	USB 3.0	● Black	PC
1TB	STBV1000100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS	7.07-in L x 4.65-in W x 1.48-in D (179.5mm x 118mm x 37.5mm)			
PACKAGE DIMENSIONS	9.09-in L x 7.97-in W x 2.83-in D (231mm x 202mm x 72mm)			

# Expansion™ Portable

The Expansion portable drive is compact and perfect for taking large files with you on-the-go.

### Key Advantages

- Simple and straightforward setup
- Powered from the USB cable
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Take large files with you when you travel.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
1TB	STBX1000100	USB 3.0	● Black	PC
500GB	STBX500100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS (1TB)	5.04-in L x 3.51-in W x 0.87-in D (128.1mm x 89.1mm x 22mm)			
PRODUCT DIMENSIONS (500GB)	4.81-in L x 3.19-in W x 0.61-in D (122.3mm x 81.1mm x 15.5mm)			
PACKAGE DIMENSIONS	5.28-in L x 6.69-in W x 1.89-in D (134mm x 170mm x 48mm)			

# GoFlex Satellite™

With GoFlex Satellite mobile wireless storage, you can take your media library with you. Stream it to your iPad or Android tablet.

### Key Advantages

- Take your media library with you on the go
- Stream media with up to 3 Wi-Fi enabled devices at the same time
- Automatically sync media and documents from your PC or Mac computer
- Up to 5 hours battery life³

### Best-Fit Applications

- Store and carry movies and other media on the go.
- Share media with others.
- Works with iPad or Android tablet



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
500GB	STBF500101	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.72-in L x 3.54-in W x 0.87-in D (120mm x 90mm x 22mm)			
PACKAGE DIMENSIONS	6.30-in L x 6.69-in W x 2.13-in D (160mm x 170mm x 54mm)			

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
² U.S. model numbers shown  
³ Exact battery life subject to product model, normal usage conditions and configurations.

# GoFlex® for Mac

The GoFlex for Mac ultra-portable drive makes it ultra-easy to store, back up and retrieve files on-the-go from your Mac computer.

## Key Advantages

- Delivers plug-and-play connectivity with FireWire 800 or USB 2.0
- Time Machine software compatibility
- Makes it easy for you to upgrade to USB 3.0 and powered eSATA
- Use the same drive on both Mac and PC.

## Best-Fit Applications

- Read, write and share files between Mac and PC computers.
- Carry files while on-the-go.
- Store files or back up using Time Machine.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
1.5TB	STBA1500100	FireWire 800/USB 2.0	● Silver	Mac, PC
1TB	STBA1000100	FireWire 800/USB 2.0	● Silver	Mac, PC
500GB	STBA500100	USB 2.0	● Black	Mac, PC
PRODUCT DIMENSIONS (1.5TB, 1TB)	4.71-in L x 3.51-in W x 0.87-in D (120mm x 89mm x 22mm)			
PRODUCT DIMENSIONS (500GB)	4.39-in L x 3.19-in W x 0.57-in D (111mm x 83mm x 14mm)			
PACKAGE DIMENSIONS	6.1-in L x 1.73-in W x 4.69-in D (170mm x 45mm x 160mm)			

# GoFlex® Slim for Mac

The GoFlex Slim for Mac performance drive has a sleek, ultra-thin enclosure and is Time Machine-ready.

## Key Advantages

- Sleek, ultra-thin anodized design
- Compatible with Time Machine software
- USB 2.0 plug-and-play
- Use the same drive on both Mac and PC computers.

## Best-Fit Applications

- Increase storage capacity for mobile devices.
- Carry files with you anywhere and everywhere.
- Read, write and share files between Mac and PC.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
500GB	STBL500100	USB 2.0	● Black	Mac, PC
320GB	STBL320100	USB 2.0	● Black	Mac, PC
PRODUCT DIMENSIONS	4.91-in L x 3.07-in W x 0.354-in D (124mm x 78mm x 9mm)			
PACKAGE DIMENSIONS	6.30-in L x 2.56-in W x 4.21-in D (160mm x 65mm x 107mm)			

# GoFlex® Pro for Mac

The GoFlex Pro for Mac ultra-portable drive gives you the flexibility you need to extend your digital life wherever you go.

## Key Advantages

- High-performance 7200-RPM drive
- FireWire 800 or USB 2.0 plug-and-play
- Compatible with Time Machine software
- Upgradable to USB 3.0 and powered eSATA
- Use the same drive on both Mac and PC computers

## Best-Fit Applications

- Store files or back up using Time Machine.
- Read, write and share files between Mac and PC.
- Carry files with you on-the-go.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
750GB	STBB750100	FireWire 800/USB 2.0	● Silver	Mac, PC
500GB	STBB500100	FireWire 800/USB 2.0	● Silver	Mac, PC
PRODUCT DIMENSIONS	4.72-in L x 3.46-in W x 0.86-in D (120mm x 88mm x 22mm)			
PACKAGE DIMENSIONS	5.63-in L x 6.3-in W x 2.17-in D (143mm x 160mm x 53mm)			

# GoFlex® Home

The GoFlex Home network storage system allows you to create secure in-home cloud storage for multiple computers in the home.

## Key Advantages

- Connects to your WiFi router
- Simple setup in just minutes
- Automatic and continuous backup
- Easily update storage capacity or plug in external drives—no tools required.

## Best-Fit Applications

- Back up multiple home PC and Mac computers.
- Store files in a central location.
- Access files from computers and mobile devices over the Internet.
- Stream media to game consoles and media players.
- Share a USB printer with all computers in the home.



CAPACITY¹	KIT NUMBER²	INTERFACE	COLOR	OS
3TB	STAM3000100	SATA/GigE	● Black	PC, Mac
2TB	STAM2000100	SATA/GigE	● Black	PC, Mac
1TB	STAM1000100	SATA/GigE	● Black	PC, Mac
PRODUCT DIMENSIONS	3.13-in L x 5.31-in W x 6.75-in D (80mm x 135mm x 171mm)			
PACKAGE DIMENSIONS	10.04-in L x 3.07-in W x 7.64-in D (255mm x 78mm x 194mm)			

# BlackArmor® NAS 440/400

A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations

### Key Advantages

- BlackArmor NAS 440 models include four drives to increase capacity and take advantage of RAID 5/10 options.
- BlackArmor NAS 400 model available without pre-installed drives for maximum flexibility.
- Designed for small business to provide optimum uptime and data integrity
- User-configurable RAID 0/1/5/10 and JBOD
- Continuous and automatic full-system backup for network connected workstations<sup>3</sup>
- Hot-swappable, user-serviceable drives—no tools required

### Best-Fit Applications

- Store and access files from a central, secure location.
- Access and manage files remotely.
- Back up or move files to a secondary storage device.
- Automatically perform full-system backups on network-connect PCs.
- Share a USB printer with network-connected PCs and Macs.
- Encrypt individual files to entire volumes of data.
- Stream media with DLNA or iTunes.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
12TB	STAU12000100	Gigabit Ethernet	● Black	PC, Mac
8TB	ST380005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
—	STAR401	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	6.30-in W x 8.15-in H x 10.59-in D (160.00mm x 207.00mm x 269.00mm)			
PACKAGE DIMENSIONS	9.29-in W x 9.50-in H x 14.37-in D (236.00mm x 241.30mm x 365.00mm)			

# BlackArmor® NAS 220

A small-business-specific network attached storage solution designed for centralized storage and data backup for up to 20 PCs

### Key Advantages

- Automatic data mirroring with RAID 1
- Protect network-connected PCs with incremental and full-system, automatic backup<sup>3</sup>
- Functions as FTP server for remote access
- Includes two reliable, user-replaceable drives
- Secure files with hardware-based encryption.

### Best-Fit Applications

- Central, secure file storage and access
- Access and manage files remotely.
- Share a printer with connected PCs and Macs.








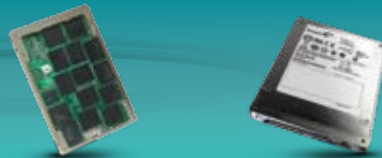
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
6TB	STAV6000100	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
2TB	ST320005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	4.09-in W x 7.79-in H x 7.40-in D (104.00mm x 197.80mm x 188.00mm)			
PACKAGE DIMENSIONS	10.90-in W x 6.13-in H x 11.00-in D (276.86mm x 155.70mm x 279.40mm)			



# Internal Storage

## At-a-Glance Product Comparison

3.5-inch	DESKTOP		ENTERPRISE		ENTERPRISE		VIDEO STORAGE	
								
	Barracuda®	Cheetah® 15K Constellation® ES.2	Constellation ES Cheetah NS	SV35 Series™ Pipeline® HD				
BUSINESS NEED	Mainstream	Performance	Mainstream	Mainstream	Low Power	Surveillance	DVR	
USE THIS DRIVE FOR	Desktop compute where choice in capacity and cache options to provide design flexibility is important	High-capacity, compute-intensive requirements demanding high performance and availability	Bulk-data applications requiring reliable, highest-capacity storage, efficiency and enterprise-class reliability	Maximum-capacity enterprise servers and storage arrays requiring enterprise-class reliability	Mainstream data requiring high capacity, low power and high availability	Surveillance systems that require high performance, low-power, ruggedized and centralized storage for every surveillance application	DVR systems where reliable, low-power, purpose-built storage is required for video streaming applications	
ENCRYPTION MODELS AVAILABLE		X	X	X				
LEARN MORE	Page 18	Page 29	Page 30	Page 31	Page 30	Page 36	Page 36	

2.5-inch	LAPTOP			ENTERPRISE			ENTERPRISE SSD	
								
	Momentus® XT Momentus Momentus Thin	Savvio® 15K Savvio 10K Constellation.2™	Pulsar® XT.2 Pulsar.2™					
BUSINESS NEED	Performance	Mainstream	Thin (7mm z-ht.)	Performance	Mainstream	Low Power	Performance	Mainstream
USE THIS DRIVE FOR	The ultimate mobile computing experience, with SSD-like performance for all applications and OS environments	Laptop PCs where the lowest power consumption, silent acoustics and the highest quality is always expected	Slim computing devices such as thin laptops and netbooks, where z-height makes all the difference	Compute-intensive data requirements demanding the highest performance density and availability	Mainstream data requiring high capacity, performance density and reliability	Online reference data demands requiring cost-effective, low-power, enterprise-class drives	Demanding data centers requiring ultra-high performance and the highest levels of data integrity and drive endurance	Enterprise environments requiring MLC-enabled, high-capacity SSD with data integrity and drive endurance
ENCRYPTION MODELS AVAILABLE		X	X	X	X	X	X	X
LEARN MORE	Page 22	Page 23	Page 24	Page 29	Page 28	Page 32	Page 33	Page 33

Product Comparison



	BARRACUDA® 3.5-INCH INTERNAL KIT	BARRACUDA
Application	Mainstream	Mainstream and Performance
Description	The fast, powerful and easy way to upgrade or add storage capacity to desktop computers	Tuned performance for low-power, mainstream and high-performance desktop computing
Form Factor	3.5 inch	3.5 inch
Performance	7200 RPM	7200 RPM
Reliability (AFR)	<1%	<1%
Max. Ext. Transfer Rate	300MB/s to 600MB/s	600MB/s
Capacity <sup>1</sup>	500GB to 3TB	250GB to 3TB
Interface	SATA 3Gb/s, SATA 6Gb/s	SATA 6Gb/s
Cache	16MB to 64MB	16MB to 64MB
Power (Idle)		3.36W to 7.37W

Feature Comparison



	MAINSTREAM	MAINSTREAM AND PERFORMANCE
Product	Barracuda 3.5-Inch Internal Kit	Barracuda
SATA Interface	X	X
Sustainable Technology	X	X
Best-in-Class Performance		X
Capacity Leadership	X	X
Quiet Acoustics	X	
DiscWizard™ Installation Software	X	X
Compatible with Windows 7 <sup>2</sup>	X	X

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> For a complete list of Seagate products that are compatible with Windows 7, visit: <http://www.microsoft.com/windows/compatibility/windows-7/en-us/Search.aspx?type=Hardware&s=Seagate>

# Desktop Storage Solutions

Seagate has a distinguished history in consistently delivering innovative technologies, super-sized capacities, low power and blazing-fast performance. Seagate desktop drives offer excellent performance at all levels.



# Barracuda®

Seagate Barracuda drives give you the Power of One with 1TB-per-disk technology and one drive platform for every capacity and application.

### Key Advantages

- Up to 3TB capacity with 7200-RPM performance
- AcuTrac™ and OptiCache™ technologies deliver dependable overall performance.
- Seagate SmartAlign™ technology provides simple migration to Advanced Format 4K sectors.
- Free Seagate DiscWizard™ software

### Best-Fit Applications

- Desktop or all-in-one PCs and home servers
- PC-based gaming systems
- Desktop RAID
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)



CAPACITY¹	MODEL	INTERFACE	CACHE
3TB	ST3000DM001	SATA 6Gb/s NCQ	64MB
2TB	ST2000DM001	SATA 6Gb/s NCQ	64MB
1.5TB	ST1500DM003	SATA 6Gb/s NCQ	64MB
1TB	ST1000DM003	SATA 6Gb/s NCQ	64MB
750GB	ST750DM003	SATA 6Gb/s NCQ	64MB
500GB	ST500DM002	SATA 6Gb/s NCQ	16MB
320GB	ST320DM000	SATA 6Gb/s NCQ	16MB
250GB	ST250DM000	SATA 6Gb/s NCQ	16MB

# Barracuda® 3.5-Inch Internal Kit

Seagate 3.5-inch internal drives are the fast, powerful, and easy way to upgrade or add storage capacity to desktop computers.

### Key Advantages

- Quiet, ultra-high performance
- DiscWizard™ software makes installation a snap
- Built-in self-monitoring technology helps ensure maximum reliability

### Best-Fit Applications

- Gaming PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream/office PCs



CAPACITY¹	KIT NUMBER²	RPM	INTERFACE
3TB	STBD3000100	7200	SATA 6Gb/s
1TB	ST310005N1A1AS-RK	7200	SATA 3Gb/s
500GB	ST3500641AS-RK	7200	SATA 3Gb/s
PACKAGE DIMENSIONS	7.38-in L x 5.88-in W x 2.88-in D (187mm x 149mm x 73mm)		

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
² U.S. model numbers shown

Product Comparison



	MOMENTUS® 2.5-INCH INTERNAL KIT	MOMENTUS XT	MOMENTUS	MOMENTUS THIN
Application	Mainstream and Performance	Extreme Performance	Mainstream	Slim Computing
Description	A complete upgrade kit to transform your system to high performance or just add capacity	Solid state hybrid drives deliver SSD-like performance without sacrificing capacity	The best combination of capacity, mobility and durability in a laptop hard drive	The world's thinnest 2.5-inch drive for slim laptops and netbooks
Form Factor	2.5 inch	2.5 inch	2.5 inch	7mm, 2.5 inch
Performance	5400 RPM to 7200 RPM	7200 RPM	5400 RPM to 7200 RPM	5400 RPM to 7200 RPM
Reliability (AFR)	0.40% to 0.50%	0.50%	0.48% to 0.50%	0.48%
Max. Ext. Transfer Rate	300MB/s	300MB/s to 600MB/s	300MB/s	300MB/s
Capacity¹	250GB to 750GB	500GB to 750GB	160GB to 750GB	160GB and 300GB
Interface	SATA 3Gb/s	SATA 3Gb/s, SATA 6Gb/s	SATA 3Gb/s	SATA 3Gb/s
Cache	8MB to 32MB	32MB	8MB to 16MB	16MB
Power (Idle)		0.8W to 1.1W	0.5W to 0.81W	0.48% to 0.66%

Feature Comparison



	MAINSTREAM AND PERFORMANCE	EXTREME PERFORMANCE	MAINSTREAM	SLIM COMPUTING
Product	Momentus 2.5-Inch Internal Kit	Momentus XT	Momentus	Momentus Thin
SATA Interface	X	X	X	X
Lowest Acoustics			X	X
Lowest Power			X	X
Self-Encrypting Drive			X	X
Drop Sensor Options			X	
Solid State Hybrid	X	X		
Compatible with Windows 7²	X	X	X	X

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
² For a complete list of Seagate products that are compatible with Windows 7, visit: <http://www.microsoft.com/windows/compatibility/windows-7/en-us/Search.aspx?type=Hardware&s=Seagate>



Laptop Storage Solutions

Seagate laptop drives address every mobile market need, delivering superior performance, reliability and value. Feature-rich with innovative options, the Seagate laptop lineup also includes self-encryption and FIPS 140-2 validated models.



# Momentus® XT

## Experience the FAST Factor™ Advantage

The Seagate Momentus XT solid state hybrid drive enables laptop PC users to enjoy solid state performance without sacrificing capacity.

### Key Advantages

- Boots and performs like an SSD<sup>7</sup>
- Up to 3x faster than a traditional HDD<sup>7</sup>
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works in any laptop or PC, any OS and any application
- Backed by a 3-year limited warranty

### Best-Fit Applications

- Laptops and mobile workstations
- Desktop and tower workstations
- High-performance laptop and desktop gaming systems
- Small form factor all-in-one PCs



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
750GB	ST750LX003	SATA 6Gb/s	32MB
500GB	ST95005620AS	SATA 3Gb/s	32MB

# Momentus®

The Seagate Momentus drive offers the world’s most feature-rich 2.5-inch family of storage for laptops and external enclosures.

### Key Advantages

- Innovative options and features—the power to transform from ordinary to extraordinary
- 7200 RPM delivers a constant high-performance boost.
- 5400 RPM enables affordable, low-power and high-capacity drives for external enclosures.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>4</sup> are government-approved for the U.S. and Canadian governments.
- G-Force Protection™ technology can help keep your data recoverable after a fall, even if your laptop doesn’t survive.
- Seagate Smartalign™ technology provides a transition to 4K sectors without the need for software utilities.

### Best-Fit Applications

- Mainstream and high-performance laptops
- External storage solutions, boxes
- Industrial applications requiring a small form factor



CAPACITY <sup>1</sup>	7200-RPM MODEL	INTERFACE	CACHE
750GB	ST9750420AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500423AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500420ASG <sup>2</sup>	SATA 3Gb/s	16MB
500GB	ST9500421AS <sup>5</sup>	SATA 3Gb/s	16MB
500GB	ST9500422AS <sup>6</sup>	SATA 3Gb/s	16MB
320GB	ST9320423AS	SATA 3Gb/s	16MB
320GB	ST320LT023 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250410AS	SATA 3Gb/s	16MB
250GB	ST250LT021 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250410ASG <sup>2</sup>	SATA 3Gb/s	16MB
250GB	ST9250411AS <sup>5</sup>	SATA 3Gb/s	16MB
250GB	ST9250412AS <sup>3,6</sup>	SATA 3Gb/s	16MB
160GB	ST9160412AS	SATA 3Gb/s	16MB
160GB	ST160LT016 <sup>3,4</sup>	SATA 3Gb/s	16MB

CAPACITY <sup>1</sup>	5400-RPM MODEL	INTERFACE	CACHE
750GB	ST9750423AS <sup>3</sup>	SATA 3Gb/s	16MB
640GB	ST9640320AS	SATA 3Gb/s	8MB
500GB	ST9500325AS	SATA 3Gb/s	8MB
500GB	ST9500325ASG <sup>2</sup>	SATA 3Gb/s	8MB
500GB	ST9500327AS <sup>5</sup>	SATA 3Gb/s	8MB
320GB	ST9320325AS	SATA 3Gb/s	8MB
320GB	ST320LT022 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250315AS	SATA 3Gb/s	8MB
250GB	ST250LT020 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250317AS <sup>5</sup>	SATA 3Gb/s	8MB
160GB	ST9160314AS	SATA 3Gb/s	8MB
160GB	ST160LT015 <sup>3,4</sup>	SATA 3Gb/s	16MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Drive with G-Force Protection™ feature  
<sup>3</sup> Advanced Format (4K) drive with SmartAlign™ technology resolves misalignment conditions.  
<sup>4</sup> 7mm z-height expanded to 9.5mm enables compatibility with standard laptop chassis.  
<sup>5</sup> Self-Encrypting Drive model  
<sup>6</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>7</sup> Performance may vary depending on user’s hardware configuration and operating system. Testing performed on a Momentus XT 750GB SSHD.

# Momentus® Thin

The 7mm, 2.5-inch drive enables slim computing for all types of mobile computing, from laptops to netbooks to smaller desktop PCs.

### Key Advantages

- 7mm z-height form factor enables thin chassis design for all segments of laptop computing.
- Seagate SmartAlign™ technology provides a transition to 4K sectors without the need for software utilities.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>3</sup> are government-approved for the U.S. and Canadian governments.

### Best-Fit Applications

- Thin entry-level laptop PCs
- Thin high-end netbooks
- Thin ultraportables
- Slim CE devices



CAPACITY <sup>1</sup>	7200-RPM MODEL	INTERFACE	CACHE
320GB	ST320LT007	SATA 3Gb/s	16MB
320GB	ST320LT014 <sup>2</sup>	SATA 3Gb/s	16MB
320GB	ST320LT009 <sup>2,3</sup>	SATA 3Gb/s	16MB
250GB	ST250LT007	SATA 3Gb/s	16MB
250GB	ST250LT014 <sup>2</sup>	SATA 3Gb/s	16MB
250GB	ST250LT009 <sup>2,3</sup>	SATA 3Gb/s	16MB
160GB	ST160LT007	SATA 3Gb/s	16MB

CAPACITY <sup>1</sup>	5400-RPM MODEL	INTERFACE	CACHE
500GB	ST500LT025 <sup>2,4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT015 <sup>3,4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT012	SATA 3Gb/s	16MB
320GB	ST320LT020	SATA 3Gb/s	16MB
320GB	ST320LT012 <sup>4</sup>	SATA 3Gb/s	16MB
250GB	ST250LT003	SATA 3Gb/s	16MB
250GB	ST250LT012 <sup>4</sup>	SATA 3Gb/s	16MB
160GB	ST160LT003	SATA 3Gb/s	16MB

# Momentus® 2.5-Inch Internal Kit

Seagate 2.5-inch internal drives deliver vast amounts of storage for adding capacity or upgrading drives in laptop computers.

### Key Advantages

- Built for mobility
- Preserves battery life
- Large data cache
- Outstanding performance
- Momentus XT solid state hybrid model offers SSD-like performance with the capacity of a hard drive.

### Best-Fit Applications

- Replacement laptop drives
- Laptop storage upgrades
- High-end laptops and workstations



CAPACITY <sup>1</sup>	KIT NUMBER <sup>5</sup>	RPM	INTERFACE
1TB	STBD1000100	5400	SATA 3Gb/s
750GB	ST907503N1A1AS-RK	7200	SATA 3Gb/s
640GB	ST906403N1A1AS-RK	5400	SATA 3Gb/s
500GB	ST905003N3A1AS-RK	7200	SATA 3Gb/s
500GB	ST905003N1A1AS-RK	5400	SATA 3Gb/s
320GB	ST903203N3A1AS-RK	7200	SATA 3Gb/s
320GB	ST903203N1A2AS-RK	5400	SATA 3Gb/s
250GB	ST90250N1A1AS-RK	5400	SATA 3Gb/s

MOMENTUS XT MODEL			
750GB	STBD750100	7200	SATA 6Gb/s
PACKAGE DIMENSIONS	6.25-in L x 4.75-in W x 2.25-in D (159mm x 121mm x 57mm)		









<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> SmartAlign technology is not available on this model.  
<sup>5</sup> U.S. model numbers shown

# Enterprise Storage Solutions

Seagate has the enterprise storage expertise as well as the global presence, processes and resources to consistently support small or medium businesses and run a large data center with the industry’s highest-quality enterprise storage products, including FIPS 140-2 validated models.



## Product Comparison

								
	SAVVIO®		CHEETAH®		CONSTELLATION®		PULSAR®	
Application	SFF Performance and Mainstream		LFF Performance and Mainstream		High Capacity and Low Power		Mainstream and Performance SSD	
Description	Highest-performing, highly reliable 15K- and 10K-RPM enterprise hard drives in a 2.5-inch form factor		Highest-performing, highly reliable 15K- and 10K-RPM enterprise hard drives in a 3.5-inch form factor		High-capacity, lowest-power, reliable 7200-RPM enterprise hard drive in both 2.5- and 3.5-inch form factors		Performance, data integrity and drive endurance in an enterprise solid state drive	
Form Factor	2.5-inch		3.5-inch		2.5-inch and 3.5-inch		2.5-inch	
Performance	15K RPM and 10K RPM		15K RPM and 10K RPM		7200 RPM		MLC and SLC	
Reliability (AFR)	0.44%		0.55%		0.62% and 0.73%		0.44%	
Capacity <sup>1</sup>	146GB to 900GB		300GB to 600GB		250GB to 3TB		100GB to 800GB	
Power (Idle)	3.5W to 4.4W		5.6W to 11.68W		2.52W to 7.7W		3.47W to 5.92W	
Interface	6Gb/s SAS, 4Gb/s FC		6Gb/s SAS, 4Gb/s FC		6Gb/s SAS, SATA 6Gb/s		6Gb/s SAS, SATA 6Gb/s	
Limited Warranty <sup>4</sup>	5 years		5 years		3 years and 5 years		5 years	

## Feature Comparison

								
	2.5-Inch Mission Critical		3.5-Inch Mission Critical		2.5-Inch Nearline	3.5-Inch Nearline	Performance SSD	Mainstream SSD
Product	Savvio 15K	Savvio 10K	Cheetah 15K	Cheetah NS	Constellation	Constellation ES	Pulsar XT.2	Pulsar.2
Best-in-Class Performance	X		X		X	X	X	
Capacity Leadership		X	X	X		X		X
Vibration Tolerance for Multi-Drive Stabilization	X	X	X	X	X	X		
6Gb/s SAS Interface	X	X	X	X	X	X	X	X
4Gb/s FC Interface		X	X	X				
6Gb/s SATA Interface					X	X	X	X
Best-in-Class Power Usage		X		X	X	X		
PowerChoice™ Optimized Idle Power Settings		X			X	X		
Self-Encrypting Drive (SED) <sup>2</sup>	X	X	X		X	X	X	X
FIPS 140-2 SED <sup>2,3</sup>	X	X	X		X	X		

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> Warranty terms may vary based on usage. Consult your Seagate sales representative for warranty terms and conditions.



# Savvio® 10K

Seagate Savvio 10K drives deliver the optimal balance of capacity, performance and power in a 10K-RPM, 2.5-inch enterprise drive.

### Key Advantages

- Highest-capacity enterprise SFF hard drive (up to 900GB)
- PowerChoice™ technology reduces power consumption.
- First SFF 10K-RPM drive to support 4Gb/s FC
- Protection Information (PI) option detects corruption of data in flight between the host system and the drive<sup>4</sup>
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- Compliance or data security initiatives



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
900GB	ST9900805SS	6Gb/s SAS	64MB
900GB	ST9900705SS <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST9900605SS <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST9900805FC	6Gb/s SAS	64MB
600GB	ST9600205SS	6Gb/s SAS	64MB
600GB	ST9600105SS <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600005SS <sup>2,3</sup>	6Gb/s SAS	64MB
600GB	ST9600205FC	6Gb/s SAS	64MB
450GB	ST9450405SS	6Gb/s SAS	64MB
450GB	ST9450305SS <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450205SS <sup>2,3</sup>	6Gb/s SAS	64MB
450GB	ST9450405FC	6Gb/s SAS	64MB
300GB	ST9300605SS	6Gb/s SAS	64MB
300GB	ST9300505SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300405SS <sup>2,3</sup>	6Gb/s SAS	64MB
300GB	ST9300605FC	6Gb/s SAS	64MB

# Savvio® 15K

The 2.5-inch Seagate Savvio 15K hard drive provides the world’s highest performance and reliability while delivering ultra-low power consumption.

### Key Advantages

- Stores twice the amount of Tier 1 data without increasing drive count
- Enables Tier 1 applications to process transactions more quickly
- Reduces system complexity and operating costs
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-performance enterprise servers and storage arrays
- Transaction-intensive database applications
- Blade, rack and tower servers
- Security compliance-driven IT organizations



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
300GB	ST9300653SS	6Gb/s SAS	64MB
300GB	ST9300553SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300453SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146853SS	6Gb/s SAS	64MB
146GB	ST9146753SS <sup>2</sup>	6Gb/s SAS	64MB
146GB	ST9146653SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146852SS	6Gb/s SAS	16MB
146GB	ST9146752SS <sup>2</sup>	6Gb/s SAS	16MB
146GB	ST9146652SS <sup>2,3</sup>	6Gb/s SAS	16MB
73GB	ST973452SS	6Gb/s SAS	16MB
73GB	ST973352SS <sup>2</sup>	6Gb/s SAS	16MB
73GB	ST973252SS <sup>2,3</sup>	6Gb/s SAS	16MB

# Cheetah® 15K

The Seagate Cheetah 15K drive provides the highest capacity, performance and reliability in 3.5-inch mission-critical storage.

### Key Advantages

- Third-generation perpendicular recording
- Sustained data rate of up to 204MB/s
- Industry’s highest 3.5-inch drive reliability
- Powertrim™ technology optimizes power consumption
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Business and transaction processing
- Email and decision support
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)
- Internet and e-commerce



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
600GB	ST3600057SS	6Gb/s SAS	16MB
600GB	ST3600957SS <sup>2</sup>	6Gb/s SAS	16MB
600GB	ST3600857SS <sup>2,3</sup>	6Gb/s SAS	16MB
600GB	ST3600057FC	4Gb/s FC	16MB
450GB	ST3450857SS	6Gb/s SAS	16MB
450GB	ST3450757SS <sup>2</sup>	6Gb/s SAS	16MB
450GB	ST3450657SS <sup>2,3</sup>	6Gb/s SAS	16MB
450GB	ST3450857FC	4Gb/s FC	16MB
300GB	ST3300657SS	6Gb/s SAS	16MB
300GB	ST3300557SS <sup>2</sup>	6Gb/s SAS	16MB
300GB	ST3300457SS <sup>2,3</sup>	6Gb/s SAS	16MB
300GB	ST3300657FC	4Gb/s FC	16MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cnvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> Protection Information (PI) feature requires PI-compliant host or controller support.



# Cheetah® NS

The Seagate Cheetah NS drive delivers the lowest-power, highest-reliability combination for 3.5-inch Tier 1 solutions.

### Key Advantages

- Highest-capacity Tier 1 drive (600GB)
- Highest LFF reliability rating in the industry, with a 0.55% annualized failure rate (AFR)
- Seagate PowerTrim technology dynamically reduces power usage.

### Best-Fit Applications

- Mainstream enterprise applications
- Business and transaction processing
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)



CAPACITY¹	MODEL	INTERFACE	CACHE
600GB	ST3600002SS	6Gb/s SAS	16MB
600GB	ST3600002FC	4Gb/s FC	16MB
450GB	ST3450802SS	6Gb/s SAS	16MB
450GB	ST3450802FC	4Gb/s FC	16MB
300GB	ST3300602FC	4Gb/s FC	16MB

# Constellation® ES.2

The Seagate Constellation ES.2 drive offers the highest capacities with nearline performance, enterprise-class reliability, high data integrity and data security.

### Key Advantages

- Highest-capacity enterprise drive for demanding data growth
- SAS and SATA drives designed for 24×7 reliability
- Best-in-class enhanced rotational vibration tolerance
- Self-Encrypting Drive (SED)² and FIPS 140-2 certified SED³ cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity bulk-data storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance
- Cloud storage



CAPACITY¹	MODEL	INTERFACE	CACHE
3TB	ST33000650NS	SATA 6Gb/s	64MB
3TB	ST33000651NS²	SATA 6Gb/s	64MB
3TB	ST33000652NS²,³	SATA 6Gb/s	64MB
3TB	ST33000650SS	6Gb/s SAS	64MB
3TB	ST33000651SS²	6Gb/s SAS	64MB
3TB	ST33000652SS²,³	6Gb/s SAS	64MB
2TB	ST32000645NS	SATA 6Gb/s	64MB
2TB	ST32000646NS²	SATA 6Gb/s	64MB
2TB	ST32000647NS²,³	SATA 6Gb/s	64MB
2TB	ST32000645SS	6Gb/s SAS	64MB
2TB	ST32000646SS²	6Gb/s SAS	64MB
2TB	ST32000647SS²,³	6Gb/s SAS	64MB

# Constellation® ES

Seagate Constellation ES 3.5-inch hard drives offer the highest capacity at 2TB while providing enterprise robustness for seamless enterprise integration.

### Key Advantages

- Enterprise nearline drive designed for 24x7 operation
- Best-in-class rotational vibration tolerance
- Multi-drive firmware maximizes system availability.
- Optimal power savings with PowerChoice™ technology
- Self-Encrypting Drive (SED)² and FIPS 140-2 certified SED³ cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity data center storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore
- Cloud storage



CAPACITY¹	MODEL	INTERFACE	CACHE
2TB	ST2000NM0011	SATA 6Gb/s	64MB
2TB	ST2000NM0031²	SATA 6Gb/s	64MB
2TB	ST2000NM0051²,³	SATA 6Gb/s	64MB
2TB	ST2000NM0001	6Gb/s SAS	64MB
2TB	ST2000NM0021²	6Gb/s SAS	64MB
2TB	ST2000NM0041²,³	6Gb/s SAS	64MB
1TB	ST1000NM0011	SATA 6Gb/s	64MB
1TB	ST1000NM0031²	SATA 6Gb/s	64MB
1TB	ST1000NM0051²,³	SATA 6Gb/s	64MB
1TB	ST1000NM0001	6Gb/s SAS	64MB
1TB	ST1000NM0021²	6Gb/s SAS	64MB
1TB	ST1000NM0041²,³	6Gb/s SAS	64MB
500GB	ST500NM0011	SATA 6Gb/s	64MB
500GB	ST500NM0031²	SATA 6Gb/s	64MB
500GB	ST500NM0051²,³	SATA 6Gb/s	64MB
500GB	ST500NM0001	6Gb/s SAS	64MB
500GB	ST500NM0021²	6Gb/s SAS	64MB
500GB	ST500NM0041²,³	6Gb/s SAS	64MB

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
² Self-Encrypting Drive models may require TCG-compliant host or controller support.  
³ See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

# Constellation.2™

The Seagate Constellation.2 drive is the only 2.5-inch enterprise-class hard drive delivering both 1TB capacities and enterprise reliability.

### Key Advantages

- Maximizes data center footprint with up to 76TB/sq.ft.
- Energy-efficient storage at under 3.9W (idle)
- Highest nearline reliability with an MTBF of 1.4M hours
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Storage-hungry business applications
- Storage area networks and network attached storage
- Maximum-capacity servers and blade servers
- Rich media content storage
- Enterprise backup and restore—D2D, virtual tape
- Cloud computing



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
1TB	ST91000640NS	SATA 6Gb/s	64MB
1TB	ST91000641NS <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST91000642NS <sup>2,3</sup>	SATA 6Gb/s	64MB
1TB	ST91000640SS	6Gb/s SAS	64MB
1TB	ST91000641SS <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST91000642SS <sup>2,3</sup>	6Gb/s SAS	64MB
500GB	ST9500620NS	SATA 6Gb/s	64MB
500GB	ST9500621NS <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST9500622NS <sup>2,3</sup>	SATA 6Gb/s	64MB
500GB	ST9500620SS	6Gb/s SAS	64MB
500GB	ST9500621SS <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST9500622SS <sup>2,3</sup>	6Gb/s SAS	64MB
250GB	ST9250610NS	SATA 6Gb/s	64MB
250GB	ST9250611NS <sup>2</sup>	SATA 6Gb/s	64MB
250GB	ST9250612NS <sup>2,3</sup>	SATA 6Gb/s	64MB

# Pulsar® XT.2

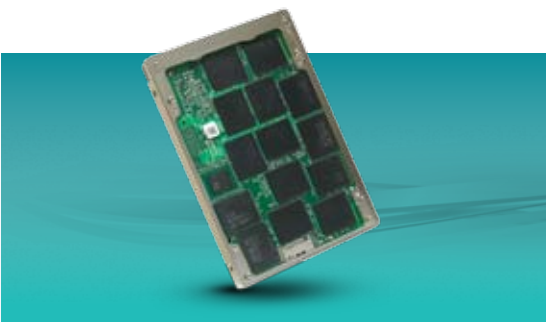
The Seagate Pulsar XT.2 SSD delivers the highest levels of performance, data integrity and drive endurance for the most demanding environments.

### Key Advantages

- Consistent high performance for complex, I/O intensive, mixed workload enterprise environments
- Fastest random write performance available in a small form factor, SAS-based SSD
- Ultra-high endurance (supports over 35 full drive writes/day)
- Advanced media-management technology helps protect against unexpected data change or loss
- Self-Encrypting Drive (SED)<sup>2</sup> option (400GB only)

### Best-Fit Applications

- Tier 0, external storage arrays
- Performance-hungry, write-intensive enterprise applications
- Blade servers, general servers and direct-attached storage
- Enterprise architectures that use auto-tiering solutions



CAPACITY <sup>1</sup>	MODEL	INTERFACE	FULL DRIVE WRITES/DAY <sup>4</sup>
400GB	ST400FX0002	6Gb/s SAS	35
400GB	ST400FX0012 <sup>2</sup>	6Gb/s SAS	35
200GB	ST200FX0002	6Gb/s SAS	35
100GB	ST100FX0002	6Gb/s SAS	35

# Pulsar.2™

The Seagate Pulsar.2 drive delivers the price-performance, data integrity and endurance benefits for performance-hungry enterprise applications.

### Key Advantages

- Best-in-class MLC endurance (up to 10 full drive writes/day)
- Price-performance and reliability benefits
- Protects against unintended data change or loss—ensuring data integrity
- Provides the same feature set to look, feel and act like an enterprise hard drive—reducing system complexity and operating costs

### Best-Fit Applications

- Tier 0, performance-hungry enterprise applications—virtualization, OLTP, data warehousing and cloud computing
- Blade servers, general servers and direct-attached storage
- Enterprise architectures using auto-tiering



CAPACITY <sup>1</sup>	MODEL	INTERFACE	FULL DRIVE WRITES/DAY <sup>4</sup>
800GB	ST800FM0002	6Gb/s SAS	10
800GB	ST800FM0012 <sup>2</sup>	6Gb/s SAS	10
400GB	ST400FM0002	6Gb/s SAS	10
400GB	ST400FM0012	SATA 6Gb/s	10
200GB	ST200FM0002	6Gb/s SAS	10
200GB	ST200FM0012	SATA 6Gb/s	10
100GB	ST100FM0002	6Gb/s SAS	10
100GB	ST100FM0012	SATA 6Gb/s	10

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> Data provided is based on format at 512 bytes.

# Video Storage Solutions

## Storage solutions for DVRs and surveillance systems

Seagate has the global presence to provide the supply and support for CE integrators as well as a complete business and technology partnership for the video storage market.

## Product Comparison



	PIPELINE HD®	SV35 SERIES™
Application	Mainstream CE-DVR	Video Surveillance
Description	Cool, quiet, low-power performance—perfect for high-definition consumer DVR applications	Optimized performance, power savings and improved reliability for video surveillance applications
Form Factor	3.5-inch	3.5-inch
Performance	Multi-room video delivery of at least ten simultaneous HD streams	7200 RPM
Reliability (AFR)	0.55%	<1%
Max. Ext. Transfer Rate	300MB/s to 600MB/s	600MB/s
Capacity <sup>1</sup>	250GB to 2TB	1TB to 3TB
Interface	SATA 3Gb/s, SATA 6Gb/s	SATA 6Gb/s
Cache	8MB to 64MB	64MB
Power (Idle)	2.5W to 4.5W	3.36W to 5.4W

## Feature Comparison



	3.5-Inch CE-DVR	Video Surveillance
Application	Pipeline HD	SV35 Series
SATA Interface	x	x
Low Power	x	
Quiet Acoustics	x	
Cool Operation	x	x
Sustainable Technology	x	
Best-in-Class Performance	x	x
Capacity Leadership	x	
24x7 Operation Capable	x	x
Extremely Low Vibration	x	

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

# Pipeline HD®

Seagate Pipeline HD drives deliver unprecedented levels of acoustic, power and vibration performance with room for hundreds of your favorite movies.

### Key Advantages

- Virtually silent streaming performance as low as 19dB
- 75°C, 24-hour operation capable
- Operational power consumption as low as 3.4W
- 2.0A spin-up current limited

### Best-Fit Applications

- Consumer digital video recorders
- Media servers and centers
- Home theater PCs and servers
- Cable, satellite and IPTV set-top boxes



CAPACITY¹	MODEL	INTERFACE	CACHE
2TB	ST2000VM003	SATA 3Gb/s	64MB
1.5TB	ST1500VM002	SATA 3Gb/s	64MB
1TB	ST1000VM002	SATA 3Gb/s	64MB
500GB	ST3500312CS	SATA 3Gb/s	8MB
320GB	ST3320311CS	SATA 3Gb/s	8MB
250GB	ST3250312CS	SATA 3Gb/s	8MB

# SV35 Series™

The Seagate SV35 series drives optimize performance, save power and improve reliability for video surveillance applications.

### Key Advantages

- Higher areal density for cost-effective DVR applications
- Performance-tuned for seamless video applications
- Enterprise-class reliability for 24x7 video surveillance applications
- Built-in error recovery for non-stop streaming

### Best-Fit Applications

- Video surveillance digital video recorder
- Video surveillance network digital video recorder
- Direct-attached JBOD video surveillance storage
- Network-attached JBOD video storage



CAPACITY¹	MODEL	INTERFACE	CACHE
3TB	ST3000VX000	SATA 6Gb/s	64MB
2TB	ST2000VX000	SATA 6Gb/s	64MB
1TB	ST1000VX000	SATA 6Gb/s	64MB

# Partner Resources and Benefits

The Seagate Partner Program (SPP) provides access to unique resources and benefits to help channel partners secure new opportunities and grow revenue and profitability.

### As a registered SPP member, you enjoy the following exclusive features:

- Password-protected portal
- E-newsletter and regular news updates
- New product evaluation unit program
- Training and sales tools
- Priority support

Start reaping the rewards of SPP membership—register today at [www.seagate.com/partners](http://www.seagate.com/partners)

- Complete the online form.
- Click through and accept our standard agreement.

# Service and Support

For information regarding products and services, visit [www.seagate.com/about/contact-us/technical-support](http://www.seagate.com/about/contact-us/technical-support)

### Available services include:

- Presales and Technical Support
- Global Support Services telephone numbers and business hours
- Authorized Seagate Service Centers

For information regarding Warranty Support, visit [www.seagate.com/support/warranty-and-returns](http://www.seagate.com/support/warranty-and-returns)

For information regarding Data Recovery Services, visit [services.seagate.com](http://services.seagate.com)

For Seagate OEM and Distribution partner portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)

For Seagate reseller portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.





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# EXHIBIT 17



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# Holidays happen.



## Back them up.

With a Backup Plus drive, they'll never miss the moment.



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# External Storage




## At-a-Glance Product Comparison

BACKUP PLUS					
Direct Attached/ Portable					
	Backup Plus Portable	Backup Plus Portable for Mac	Thunderbolt™ Backup Plus for Mac Portable	Backup Plus Desktop	Backup Plus Desktop for Mac
PERFECT FOR	Protecting and sharing digital memories			Keeping your digital life safe and sound	
DESCRIPTION	Store and back up the content on your social networks with these flexible, portable drives. PC or Mac.			These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.	
LEARN MORE	Page 5	Page 6	Page 6	Page 8	Page 7

GOFLEX	
Wireless Mobile	
	GoFlex Satellite™
PERFECT FOR	Wireless storage for your tablet
DESCRIPTION	Take your media library on the go and stream it wirelessly to your iPad, Android tablet and smartphone. PC or Mac.
LEARN MORE	Page 10

GOFLEX	
Network Attached	
	GoFlex Home
PERFECT FOR	Wireless centralized home storage
DESCRIPTION	This network storage system supports the external storage needs of every computer in your home. PC or Mac.
LEARN MORE	Page 11

		SLIM		EXPANSION™	
					
<b>Thunderbolt™ Backup Plus for Mac Desktop</b>		<b>Slim Portable</b>		<b>Expansion Desktop</b>	
Keeping your digital life safe and sound		Thin storage that fits—and goes—anywhere		Protecting and sharing your digital life	
These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.		This ultra-thin metal design is the world's sleekest portable external hard drive. PC or Mac.		Expansion drives allow you to instantly add more storage space to your computer and take large files with you.	
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BLACKARMOR®		
		
<b>BlackArmor NAS 440</b>		<b>BlackArmor NAS 220</b>
Full-system backup, RAID 0, 1, 5, 10 or JBOD		Full-system backup, RAID 0 or 1
A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations.		A network attached storage solution designed to provide centralized storage and data backup.
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# External Storage Solutions

Seagate external storage solutions are sleek, dependable and ultra-portable products that let your customers automatically and continuously store digital family photos, protect critical business data, back up multiple computers on a small network, or share and store videos and music.





# Backup Plus

The Backup Plus portable drive is the simple way to protect and share your entire digital life.

## Key Advantages

- Easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Thunderbolt technology or FireWire 800 upgrade allows higher transfer speeds

## Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBU1000100	USB 3.0	● Black	PC, Mac
1TB	STBU1000101	USB 3.0	● Silver	PC, Mac
1TB	STBU1000102	USB 3.0	● Blue	PC, Mac
1TB	STBU1000103	USB 3.0	● Red	PC, Mac
750GB	STBU750100	USB 3.0	● Black	PC, Mac
500GB	STBU500100	USB 3.0	● Black	PC, Mac
500GB	STBU500101	USB 3.0	● Silver	PC, Mac
500GB	STBU500102	USB 3.0	● Blue	PC, Mac
500GB	STBU500103	USB 3.0	● Red	PC, Mac
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			



<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> U.S. model numbers shown

## Backup Plus for Mac

The Backup Plus portable drive for Mac is the simple way to protect and share your entire digital life.



### Key Advantages

- Mac OS and Time-Machine ready out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Easily increase transfer speeds by upgrading to Thunderbolt technology.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000301	USB 3.0	● Silver/ ○ White	Mac, PC
500GB	STBW500301	USB 3.0	● Silver/ ○ White	Mac, PC
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			

## Thunderbolt™ Backup Plus for Mac Portable

The Thunderbolt Backup Plus for Mac portable drive is everything you need to transfer, store and back up files using Thunderbolt technology.



### Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Compatible with Time Machine software
- Compatible with Thunderbolt devices
- No external power supply required

### Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gps

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000401	Thunderbolt	● Black	Mac, PC
PRODUCT DIMENSIONS	5.12-in L x 3.19-in W x 1.09-in D (130mm x 81mm x 27.8mm)			
PACKAGE DIMENSIONS	6.69-in L x 5.24-in W x 1.81-in D (170mm x 133mm x 46mm)			

## Backup Plus Desktop for Mac

The Backup Plus desktop drive for Mac is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Mac OS and Time Machine ready right out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Up to 3TB capacity for a lifetime of memories

### Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STCB3000900	FireWire 800/ USB 3.0	● Black/ ● Silver	Mac, PC
2TB	STCB2000900	FireWire 800/ USB 3.0	● Black/ ● Silver	Mac, PC
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)		●	
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)		●	

## Thunderbolt Backup Plus for Mac Desktop

The Thunderbolt Backup Plus for Mac desktop drive is everything you need to transfer, store and back up files using Thunderbolt technology.

### Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Dual ports enable daisy-chaining up to six devices
- Compatible with Thunderbolt displays and other devices
- Compatible with Time Machine softwares

### Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gbps



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STCB3000400	Thunderbolt	● Black	Mac, PC
PRODUCT DIMENSIONS	6.61-in L x 4.76-in W x 2.42-in D (168mm x 120.9mm x 61.4mm)			
PACKAGE DIMENSIONS	8.64-in L x 9.13-in W x 3.5-in D (219.5mm x 232mm x 89mm)			

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> U.S. model numbers shown



## Backup Plus Desktop

The Backup Plus desktop drive is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible, built-in backup options
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Up to 4TB capacity for a lifetime of memories
- Increase transfer speeds by upgrading to Thunderbolt technology or FireWire 800.

### Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STCA4000100	USB 3.0	● Black	PC, Mac
3TB	STCA3000100	USB 3.0	● Black	PC, Mac
2TB	STCA2000100	USB 3.0	● Black	PC, Mac
1TB	STCA1000100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)			
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

## Slim Portable for Mac

The Seagate Slim portable drive for Mac combines our thinnest, sleekest form factor in a Time Machine-ready drive.

### Key Advantages

- World's slimmest portable external hard drive
- Mac OS and Time Machine ready out of the box
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
500GB	STCF500400	USB 3.0	● Black	Mac, PC
PRODUCT DIMENSIONS	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			



## Slim Portable

The Seagate Slim portable drive is our thinnest, sleekest way yet to back up the things that are important to you.

### Key Advantages

- World's slimmest portable external hard drive
- Protects your stuff with easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
500GB	STOD500100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			

## Expansion™ Desktop

The Expansion desktop drive provides extra storage for your ever-growing collection of files.

### Key Advantages

- Simple and straightforward setup
- No software to install and nothing to configure
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Improve performance on your computer's internal drive by freeing up space on your internal drive.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STBV3000100	USB 3.0	● Black	PC
2TB	STBV2000100	USB 3.0	● Black	PC
1TB	STBV1000100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS	7.07-in L x 4.65-in W x 1.48-in D (179.5mm x 118mm x 37.5mm)			
PACKAGE DIMENSIONS	9.09-in L x 7.97-in W x 2.83-in D (231mm x 202mm x 72mm)			

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup> U.S. model numbers shown

## Expansion™ Portable

The Expansion portable drive is compact and perfect for taking large files with you on-the-go.

### Key Advantages

- Simple and straightforward setup
- Powered from the USB cable
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Take large files with you when you travel.



CAPACITY	KIT NUMBER	INTERFACE	COLOR	OS
1TB	STBX1000101	USB 3.0	● Black	PC
750GB	STBX750100	USB 3.0	● Black	PC
500GB	STBX500100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS (1TB)	5.04-in L x 3.51-in W x 0.87-in D (128.1mm x 89.1mm x 22mm)			
PRODUCT DIMENSIONS (500GB)	4.81-in L x 3.19-in W x 0.61-in D (122.3mm x 81.1mm x 15.5mm)			

## GoFlex Satellite™

With GoFlex Satellite mobile wireless storage, you can take your media library with you. Stream it to your iPad or Android tablet.

### Key Advantages

- Take your media library with you on the go
- Stream media with up to 3 Wi-Fi enabled devices at the same time
- Automatically sync media and documents from your PC or Mac computer
- Up to 5 hours battery life<sup>3</sup>

### Best-Fit Applications

- Store and carry movies and other media on the go.
- Share media with others.
- Works with iPad or Android tablet



CAPACITY	KIT NUMBER	INTERFACE	COLOR	OS
500GB	STBF500101	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.72-in L x 3.54-in W x 0.87-in D (120mm x 90mm x 22mm)			
PACKAGE DIMENSIONS	6.30-in L x 6.69-in W x 2.13-in D (160mm x 170mm x 54mm)			

## GoFlex® Home

The GoFlex Home network storage system allows you to create secure in-home cloud storage for multiple computers in the home.

### Key Advantages

- Connects to your WiFi router
- Simple setup in just minutes
- Automatic and continuous backup
- Easily update storage capacity or plug in external drives—no tools required.

### Best-Fit Applications

- Back up multiple home PC and Mac computers.
- Store files in a central location.
- Access files from computers and mobile devices over the Internet.
- Stream media to game consoles and media players.
- Share a USB printer with all computers in the home.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STAM3000100	SATA/GigE	Black	PC, Mac
2TB	STAM2000100	SATA/GigE	Black	PC, Mac
1TB	STAM1000100	SATA/GigE	Black	PC, Mac
PRODUCT DIMENSIONS	3.13-in L x 5.31-in W x 6.75-in D (80mm x 135mm x 171mm)			
PACKAGE DIMENSIONS	10.04-in L x 3.07-in W x 7.64-in D (255mm x 78mm x 194mm)			



<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup> U.S. model numbers shown.

<sup>3</sup> Exact battery life subject to product model, normal usage conditions and configurations.



## EXTERNAL STORAGE

## BlackArmor® NAS 440/400

A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations



### Key Advantages

- BlackArmor NAS 440 models include four drives to increase capacity and take advantage of RAID 5/10 options.
- BlackArmor NAS 400 model available without pre-installed drives for maximum flexibility.
- Designed for small business to provide optimum uptime and data integrity
- User-configurable RAID 0/1/5/10 and JBOD
- Continuous and automatic full-system backup for network connected workstations<sup>3</sup>
- Hot-swappable, user-serviceable drives—no tools required

### Best-Fit Applications

- Store and access files from a central, secure location.
- Access and manage files remotely.
- Back up or move files to a secondary storage device.
- Automatically perform full-system backups on network-connect PCs.
- Share a USB printer with network-connected PCs and Macs.
- Encrypt individual files to entire volumes of data.
- Stream media with DLNA or iTunes.

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
12TB	STAU12000100	Gigabit Ethernet	● Black	PC, Mac
8TB	ST380005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
—	STAR401	Gigabit Ethernet	Black	PC, Mac
PRODUCT DIMENSIONS	6.30-in W x 8.15-in H x 10.59-in D (160.00mm x 207.00mm x 269.00mm)			
PACKAGE DIMENSIONS	9.29-in W x 9.50-in H x 14.37-in D (236.00mm x 241.30mm x 365.00mm)			



## BlackArmor® NAS 220

A small-business-specific network attached storage solution designed for centralized storage and data backup for up to 20 PCs



### Key Advantages

- Automatic data mirroring with RAID 1
- Protect network-connected PCs with incremental and full-system, automatic backup.<sup>3</sup>
- Functions as FTP server for remote access
- Includes two reliable, user-replaceable drives
- Secure files with hardware-based encryption.

### Best-Fit Applications

- Central, secure file storage and access
- Access and manage files remotely.
- Share a printer with connected PCs and Macs.

CAPACITY	KIT NUMBER <sup>1</sup>	INTERFACE	COLOR	OS
6TB	STA16000100	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
2TB	ST320005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	4.09-in W x 7.79-in H x 7.40-in D (104.00mm x 197.80mm x 188.00mm)			
PACKAGE DIMENSIONS	10.90-in W x 6.13-in H x 11.00-in D (276.86mm x 155.70mm x 279.40mm)			





<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to hard drive capacity.




<sup>2</sup> U.S. model numbers shown

<sup>3</sup> Includes 10 software licenses; additional licenses available at [www.seagate.com](http://www.seagate.com).

# Internal Storage

## At-a-Glance Product Comparison

	DESKTOP	ENTERPRISE		
3.5-inch				
	Barracuda®	Cheetah® 15K	Constellation® ES.3	Constellation ES.2
BUSINESS NEED	Mainstream	Performance	Mainstream	
USE THIS DRIVE FOR	Desktop compute where choice in capacity and cache options to provide design flexibility is important	High-capacity, compute-intensive requirements demanding high performance and availability	Bulk-data applications requiring reliable, highest-capacity storage, efficiency and enterprise-class reliability	
ENCRYPTION MODELS AVAILABLE		X	X	X
LEARN MORE	Page 18	Page 29	Page 30	Page 31

	LAPTOP		
2.5-inch			
	Momentus® XT	Momentus	Momentus Thin
BUSINESS NEED	Performance	Mainstream	Thin (7mm z-ht.)
USE THIS DRIVE FOR	The ultimate mobile computing experience, with SSD-like performance for all applications and OS environments	Laptop PCs where the lowest power consumption, silent acoustics and the highest quality is always expected	Slim computing devices such as thin laptops and netbooks, where z-height makes all the difference
ENCRYPTION MODELS AVAILABLE		X	X
LEARN MORE	Page 22	Page 23	Page 24

## AT-A-GLANCE PRODUCT COMPARISON

ENTERPRISE		VIDEO STORAGE	
			
Constellation ES	Constellation CS	SV35 Series™	Pipeline® HD
Mainstream	Low Power	Surveillance	DVR
Maximum-capacity enterprise servers and storage arrays requiring enterprise-class reliability		Surveillance systems that require high performance, low-power, ruggedized and centralized storage for every surveillance application	
X		DVR systems where reliable, low-power, purpose-built storage is required for video streaming applications	
Page 31		Page 36	
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ENTERPRISE			ENTERPRISE SSD
			
Savvio® 15K	Savvio 10K	Constellation.2™	Pulsar.2™
Performance	Mainstream	Low Power	Mainstream
Compute-intensive data requirements demanding the highest performance density and availability	Mainstream data requiring high capacity, performance density and reliability	Online reference data demands requiring cost-effective, low-power, enterprise-class drives	Enterprise environments requiring MLC-enabled, high-capacity SSD with data integrity and drive endurance
X	X	X	X
Page 29	Page 28	Page 32	Page 33

# Desktop Storage Solutions

Seagate has a distinguished history in consistently delivering innovative technologies, super-sized capacities, low power and blazing-fast performance. Seagate desktop drives offer excellent performance at all levels.





## Product Comparison



	BARRACUDA® 3.5-INCH INTERNAL KIT	BARRACUDA
Application	Mainstream	Mainstream and Performance
Description	The fast, powerful and easy way to upgrade or add storage capacity to desktop computers	Tuned performance for low-power, mainstream and high-performance desktop computing
Form Factor	3.5 inch	3.5 inch
Performance	7200 RPM	7200 RPM
Reliability (AFR)	<1%	<1%
Max. Ext. Transfer Rate	300MB/s to 600MB/s	600MB/s
Capacity <sup>1</sup>	500GB to 3TB	250GB to 3TB
Interface	SATA 3Gb/s, SATA 6Gb/s	SATA 6Gb/s
Cache	16MB to 64MB	16MB to 64MB
Power (Idle)		4.60W 3.36W to 5.40W (Idle2)

## Feature Comparison



	MAINSTREAM	MAINSTREAM AND PERFORMANCE
Product	Barracuda 3.5-Inch Internal Kit	Barracuda
SATA Interface	X	X
Sustainable Technology	X	X
Best-in-Class Performance		X
Capacity Leadership	X	X
Quiet Acoustics	X	
DiscWizard™ Installation Software	X	X
Compatible with Windows 7 <sup>2</sup>	X	X

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> For a complete list of Seagate products that are compatible with Windows 7, visit: <http://www.microsoft.com/windows/compatibility/windows-7/en-us/Search.aspx?type=Hardware&s=Seagate>

## Barracuda®

Seagate Barracuda drives give you the Power of One with 1TB-per-disk technology and one drive platform for every capacity and application.



### Key Advantages

- Up to 3TB capacity with 7200-RPM performance
- AcuTrac™ and OptiCache™ technologies deliver dependable overall performance.
- Seagate SmartAlign™ technology provides simple migration to Advanced Format 4K sectors.
- Free Seagate DiscWizard™ software

### Best-Fit Applications

- Desktop or all-in-one PCs and home servers
- PC-based gaming systems
- Desktop RAID
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)

CAPACITY	MODEL	INTERFACE	CACHE
3TB	ST3000DM001	SATA 6Gb/s NCQ	64MB
2TB	ST2000DM001	SATA 6Gb/s NCQ	64MB
1TB	ST1000DM003	SATA 6Gb/s NCQ	64MB
500GB	ST500DM002	SATA 6Gb/s NCQ	16MB
320GB	ST320DM000	SATA 6Gb/s NCQ	16MB
250GB	ST250DM000	SATA 6Gb/s NCQ	16MB

## Barracuda® 3.5-Inch Internal Kit

Seagate 3.5-inch internal drives are the fast, powerful, and easy way to upgrade or add storage capacity to desktop computers.



### Key Advantages

- Quiet, ultra-high performance
- DiscWizard™ software makes installation a snap
- Built-in self-monitoring technology helps ensure maximum reliability

### Best-Fit Applications

- Gaming PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream/office PCs

CAPACITY	KIT NUMBER <sup>2</sup>	RPM	INTERFACE
3TB	STBD3000100	7200	SATA 6Gb/s
2TB	STBD2000101	7200	SATA 6Gb/s
1TB	ST310005N1A1AS-RK	7200	SATA 6Gb/s
500GB	ST3500641AS-RK	7200	SATA 3Gb/s
PACKAGE DIMENSIONS	7.38-in L x 5.88-in W x 2.88-in D (187mm x 149mm x 73mm)		

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> U.S. model numbers shown

# Laptop Storage Solutions

Seagate laptop drives address every mobile market need, delivering superior performance, reliability and value. Feature-rich with innovative options, the Seagate laptop lineup also includes self-encryption and FIPS 140-2 validated models.





## Product Comparison

**MOMENTUS® 2.5-INCH  
INTERNAL KIT****MOMENTUS XT****MOMENTUS****MOMENTUS THIN**

Application	Mainstream and Performance	Extreme Performance	Mainstream	Slim Computing
Description	A complete upgrade kit to transform your system to high performance or just add capacity	Solid state hybrid drives deliver SSD-like performance without sacrificing capacity	The best combination of capacity, mobility and durability in a laptop hard drive	The world's thinnest 2.5-inch drive for slim laptops and netbooks
Form Factor	2.5 inch	2.5 inch	2.5 inch	7mm, 2.5 inch
Performance	5400 RPM to 7200 RPM	7200 RPM	5400 RPM to 7200 RPM	5400 RPM to 7200 RPM
Reliability (AFR)	0.40% to 0.50%	0.50%	0.48%	0.48%
Max. Ext. Transfer Rate	300MB/s to 600MB/s	300MB/s to 600MB/s	300MB/s	300MB/s
Capacity <sup>1</sup>	250GB to 1TB	500GB to 750GB	250GB to 750GB	250GB and 300GB
Interface	SATA 6Gb/s	SATA 3Gb/s, SATA 6Gb/s	SATA 3Gb/s	SATA 3Gb/s
Cache	8MB to 32MB	32MB	8MB to 16MB	16MB
Power (Idle)		0.8W to 1.1W	0.67W to 0.81W	0.45W to 0.66W

## Feature Comparison

**MAINSTREAM AND  
PERFORMANCE****EXTREME  
PERFORMANCE****MAINSTREAM****SLIM COMPUTING**

Product	Momentus 2.5-Inch Internal Kit	Momentus XT	Momentus	Momentus Thin
SATA Interface	X	X	X	X
Lowest Acoustics			X	X
Lowest Power			X	X
Self-Encrypting Drive			X	X
Drop Sensor Options			X	
Solid State Hybrid	X	X		
Compatible with Windows 7 <sup>2</sup>	X	X	X	X

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.<sup>2</sup>For a complete list of Seagate products that are compatible with Windows 7, visit: <http://www.microsoft.com/windows/compatibility/windows-7/en-us/Search.aspx?type=Hardware&s=Seagate>

## Momentus® XT

The Seagate Momentus XT solid state hybrid drive enables laptop PC users to enjoy solid state performance without sacrificing capacity.



### Key Advantages

- Boots and performs like an SSD<sup>7</sup>
- Up to 3x faster than a traditional HDD<sup>7</sup>
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works in any laptop or PC, any OS and any application
- Backed by a 3-year limited warranty

### Best-Fit Applications

- Laptops and mobile workstations
- Desktop and tower workstations
- High-performance laptop and desktop gaming systems
- Small form factor all-in-one PCs

CAPACITY	MODEL	INTERFACE	CACHE
750GB	ST750LX003	SATA 6Gb/s	32MB
500GB	ST95005620AS	SATA 3Gb/s	32MB

## Momentum®

The Seagate Momentum drive offers the world's most feature-rich 2.5-inch family of storage for laptops and external enclosures.



### Key Advantages

- Innovative options and features—the power to transform from ordinary to extraordinary
- 7200 RPM delivers a constant high-performance boost.
- 5400 RPM enables affordable, low-power and high-capacity drives for external enclosures.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>4</sup> are government-approved for the U.S. and Canadian governments.
- G-Force Protection™ technology can help keep your data recoverable after a fall, even if your laptop doesn't survive.
- Seagate Smartalign™ technology provides a transition to 4K sectors without the need for software utilities.

### Best-Fit Applications

- Mainstream and high-performance laptops
- External storage solutions, boxes
- Industrial applications requiring a small form factor

CAPACITY	7200-RPM MODEL	INTERFACE	CACHE
750GB	ST9750420AS <sup>1</sup>	SATA 3Gb/s	16MB
500GB	ST9500423AS <sup>1</sup>	SATA 3Gb/s	16MB
500GB	ST9500420ASG <sup>2</sup>	SATA 3Gb/s	16MB
500GB	ST9500421AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500422AS <sup>3</sup>	SATA 3Gb/s	16MB
320GB	ST9320423AS	SATA 3Gb/s	16MB
320GB	ST320LT023 <sup>4,5</sup>	SATA 3Gb/s	16MB
250GB	ST9250410AS	SATA 3Gb/s	16MB
250GB	ST250LT021 <sup>4,5</sup>	SATA 3Gb/s	16MB
250GB	ST9250410ASG <sup>2</sup>	SATA 3Gb/s	16MB
250GB	ST9250411AS <sup>3</sup>	SATA 3Gb/s	16MB
250GB	ST9250412AS <sup>3,6</sup>	SATA 3Gb/s	16MB

CAPACITY	5400-RPM MODEL	INTERFACE	CACHE
500GB	ST9500325AS	SATA 3Gb/s	8MB
500GB	ST9500325ASG <sup>2</sup>	SATA 3Gb/s	8MB
500GB	ST9500327AS <sup>3</sup>	SATA 3Gb/s	8MB
320GB	ST9320325AS	SATA 3Gb/s	8MB
320GB	ST320LT022 <sup>4,5</sup>	SATA 3Gb/s	16MB
250GB	ST9250315AS	SATA 3Gb/s	8MB
250GB	ST250LT020 <sup>4,5</sup>	SATA 3Gb/s	16MB
250GB	ST9250317AS <sup>3</sup>	SATA 3Gb/s	8MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup> Drive with G-Force Protection™ feature

<sup>3</sup> Advanced Format (4K) drive with SmartAlign™ technology resolves misalignment conditions.

<sup>4</sup> 7mm z-height expanded to 9.5mm enables compatibility with standard laptop chassis.

<sup>5</sup> Self-Encrypting Drive model

<sup>6</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

<sup>7</sup> Performance may vary depending on user's hardware configuration and operating system. Testing performed on a Momentum XT 750GB SSHD.

## Momentus® Thin

The 7mm, 2.5-inch drive enables slim computing for all types of mobile computing, from laptops to netbooks to smaller desktop PCs.



### Key Advantages

- 7mm z-height form factor enables thin chassis design for all segments of laptop computing.
- Seagate SmartAlign™ technology provides a transition to 4K sectors without the need for software utilities.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>3</sup> are government-approved for the U.S. and Canadian governments.

### Best-Fit Applications

- Thin entry-level laptop PCs
- Thin high-end netbooks
- Thin ultraportables
- Slim CE devices

CAPACITY	7200-RPM MODEL	INTERFACE	CACHE
320GB	ST320LT007	SATA 3Gb/s	16MB
320GB	ST320LT014 <sup>4</sup>	SATA 3Gb/s	16MB
320GB	ST320LT009 <sup>3</sup>	SATA 3Gb/s	16MB
250GB	ST250LT007	SATA 3Gb/s	16MB
250GB	ST250LT014 <sup>4</sup>	SATA 3Gb/s	16MB
250GB	ST250LT009 <sup>3</sup>	SATA 3Gb/s	16MB

CAPACITY	5400-RPM MODEL	INTERFACE	CACHE
500GB	ST500LT025 <sup>4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT015 <sup>4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT012	SATA 3Gb/s	16MB
320GB	ST320LT020	SATA 3Gb/s	16MB
320GB	ST320LT012 <sup>4</sup>	SATA 3Gb/s	16MB
250GB	ST250LT003	SATA 3Gb/s	16MB
250GB	ST250LT012 <sup>4</sup>	SATA 3Gb/s	16MB



## Momentus® 2.5-Inch Internal Kit

Seagate 2.5-inch internal drives deliver vast amounts of storage for adding capacity or upgrading drives in laptop computers.



### Key Advantages

- Built for mobility
- Preserves battery life
- Large data cache
- Outstanding performance
- Momentus XT solid state hybrid model offers SSD-like performance with the capacity of a hard drive.

### Best-Fit Applications

- Replacement laptop drives
- Laptop storage upgrades
- High-end laptops and workstations

CAPACITY	KIT NUMBER <sup>1</sup>	RPM	INTERFACE
1TB	STBD1000100	5400	SATA 3Gb/s
500GB	ST905003N3A1AS-RK	7200	SATA 3Gb/s
500GB	ST905003N1A1AS-RK	5400	SATA 3Gb/s
250GB	ST90250N1A1AS-RK	5400	SATA 3Gb/s
PACKAGE DIMENSIONS	6.25-in L x 4.75-in W x 2.25-in D (159mm x 121mm x 57mm)		

MOMENTUS XT MODEL			
750GB	STBD750100	7200	SATA 6Gb/s
PACKAGE DIMENSIONS	6.25-in L x 4.75-in W x 2.25-in D (159mm x 121mm x 57mm)		

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.

<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

<sup>4</sup> SmartAlign technology is not available on this model.

<sup>5</sup> U.S. model numbers shown

# Enterprise Storage Solutions

Seagate has the enterprise storage expertise as well as the global presence, processes and resources to consistently support small or medium businesses and run a large data center with the industry's highest-quality enterprise storage products, including FIPS 140-2 validated models.



## Product Comparison



	SAWIO®	CHEETAH®	CONSTELLATION®	PULSAR®
Application	SFF Performance and Mainstream	LFF Performance	High Capacity and Low Power	Mainstream SSD
Description	Highest-performing, highly reliable 15K- and 10K-RPM enterprise hard drives in a 2.5-inch form factor	Highest-performing, highly reliable 15K-RPM enterprise hard drives in a 3.5-inch form factor	High-capacity, lowest-power, reliable 7200-RPM enterprise hard drive in both 2.5- and 3.5-inch form factors	Performance, data integrity and drive endurance in an enterprise solid state drive
Form Factor	2.5-inch	3.5-inch	2.5-inch and 3.5-inch	2.5-inch
Performance	15K RPM and 10K RPM	15K RPM	7200 RPM	MLC and SLC
Reliability (AFR)	0.44%	0.55%	0.62% and 1.1%	0.44%
Capacity <sup>1</sup>	300GB to 900GB	300GB to 600GB	250GB to 3TB	100GB to 800GB
Power (Idle)	3.0W to 4.4W	8.74W to 11.68W	2.52W to 7.7W	3.47W to 5.92W
Interface	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, SATA 6Gb/s	6Gb/s SAS, SATA 6Gb/s
Limited Warranty <sup>4</sup>	5 years	5 years	3 years and 5 years	5 years

## Feature Comparison



	2.5-Inch Mission Critical		3.5-Inch Mission Critical	2.5-Inch Nearline	3.5-Inch Nearline	Mainstream SSD
Product	Sawio 15K	Sawio 10K	Cheetah 15K	Constellation	Constellation ES Constellation CS	Pulsar.2
Best-in-Class Performance	X	X	X	X	X	
Capacity Leadership		X	X		X	X
Vibration Tolerance for Multi-Drive Stabilization	X	X	X	X	X	
6Gb/s SAS Interface	X	X	X	X	X	X
4Gb/s FC Interface		X	X			
6Gb/s SATA Interface				X	X	X
Best-in-Class Power Usage		X		X	X	
PowerChoice™ Optimized Idle Power Settings		X		X	X	
Self-Encrypting Drive (SED) <sup>2</sup>	X	X	X	X	X	X
FIPS 140-2 SED <sup>2,3</sup>	X	X	X	X	X	

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.

<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

<sup>4</sup> Warranty terms may vary based on usage. Consult your Seagate sales representative for warranty terms and conditions.



## Savvio® 10K

Seagate Savvio 10K drives deliver the optimal balance of capacity, performance and power in a 10K-RPM, 2.5-inch enterprise drive.



### Key Advantages

- Highest-capacity enterprise SFF hard drive (up to 900GB)
- PowerChoice™ technology reduces power consumption.
- First SFF 10K-RPM drive to support 4Gb/s FC
- Protection Information (PI) option detects corruption of data in flight between the host system and the drive<sup>5</sup>
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- Compliance or data security initiatives

CAPACITY	MODEL	INTERFACE	CACHE
900GB	ST900MM0026 <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST900MM0036 <sup>2,4</sup>	6Gb/s SAS	64MB
900GB	ST9900805SS	6Gb/s SAS	64MB
900GB	ST9900705SS <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST9900605SS <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST9900805FC	4Gb/s FC	64MB
600GB	ST600MM0026 <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600205SS	6Gb/s SAS	64MB
600GB	ST9600105SS <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600005SS <sup>2,3</sup>	6Gb/s SAS	64MB
600GB	ST9600205FC	4Gb/s FC	64MB
450GB	ST450MM0026 <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450405SS	6Gb/s SAS	64MB
450GB	ST9450305SS <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450205SS <sup>2,3</sup>	6Gb/s SAS	64MB
450GB	ST9450405FC	4Gb/s FC	64MB
300GB	ST300MM0026 <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300605SS	6Gb/s SAS	64MB
300GB	ST9300505SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300405SS <sup>2,3</sup>	6Gb/s SAS	64MB
300GB	ST9300605FC	4Gb/s FC	64MB



## Savvio® 15K

The 2.5-inch Seagate Savvio 15K hard drive provides the world's highest performance and reliability while delivering ultra-low power consumption.

### Key Advantages

- Stores twice the amount of Tier 1 data without increasing drive count
- Enables Tier 1 applications to process transactions more quickly
- Reduces system complexity and operating costs
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-performance enterprise servers and storage arrays
- Transaction-intensive database applications
- Blade, rack and tower servers
- Security compliance-driven IT organizations



CAPACITY	MODEL	INTERFACE	CACHE
300GB	ST9300653SS	6Gb/s SAS	64MB
300GB	ST9300553SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300453SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146853SS	6Gb/s SAS	64MB
146GB	ST9146753SS <sup>2</sup>	6Gb/s SAS	64MB
146GB	ST9146653SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146852SS	6Gb/s SAS	16MB
146GB	ST9146752SS <sup>2</sup>	6Gb/s SAS	16MB
146GB	ST9146652SS <sup>2,3</sup>	6Gb/s SAS	16MB
73GB	ST973452SS	6Gb/s SAS	16MB
73GB	ST973352SS <sup>2</sup>	6Gb/s SAS	16MB
73GB	ST973252SS <sup>2,3</sup>	6Gb/s SAS	16MB

## Cheetah® 15K

The Seagate Cheetah 15K drive provides the highest capacity, performance and reliability in 3.5-inch mission-critical storage.

### Key Advantages

- Third-generation perpendicular recording
- Sustained data rate of up to 204MB/s
- Industry's highest 3.5-inch drive reliability
- Powertrim™ technology optimizes power consumption
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Business and transaction processing
- Email and decision support
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)
- Internet and e-commerce



CAPACITY	MODEL	INTERFACE	CACHE
600GB	ST3600057SS	6Gb/s SAS	16MB
600GB	ST3600957SS <sup>2</sup>	6Gb/s SAS	16MB
600GB	ST3600857SS <sup>2,3</sup>	6Gb/s SAS	16MB
600GB	ST3600057FC	4Gb/s FC	16MB
450GB	ST3450857SS	6Gb/s SAS	16MB
450GB	ST3450757SS <sup>2</sup>	6Gb/s SAS	16MB
450GB	ST3450657SS <sup>2,3</sup>	6Gb/s SAS	16MB
450GB	ST3450857FC	4Gb/s FC	16MB
300GB	ST3300657SS	6Gb/s SAS	16MB
300GB	ST3300557SS <sup>2</sup>	6Gb/s SAS	16MB
300GB	ST3300457SS <sup>2,3</sup>	6Gb/s SAS	16MB
300GB	ST3300657FC	4Gb/s FC	16MB

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup>Self-Encrypting Drive models may require TCG-compliant host or controller support.

<sup>3</sup>See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/omvp/documents/140-1/1401vend.htm>.

<sup>4</sup>FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/omvp/validation.htm#05>.

<sup>5</sup>Protection Information (PI) feature requires PI-compliant host or controller support.

## Constellation® ES.3

The Seagate Constellation ES.3 enterprise capacity HDD helps data centers meet the demanding growth of unstructured data.



### Key Advantages

- Highest-capacity enterprise drive for maximum density server and storage solutions
- SAS and SATA interfaces with 24x7 reliability
- Predictable 7200-RPM performance even in the most rugged multi-drive environments
- Improved power and cooling efficiencies with low power consumption and on-demand PowerChoice™ technology
- Protect your data and ease data disposal costs and management with the SED FIPS 140-2 option.<sup>4,5</sup>

### Best-Fit Applications

- High-capacity RAID storage
- Mainstream enterprise external storage (SAN, NAS, DAS)
- Cloud bulk data storage
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance

CAPACITY	MODEL	INTERFACE	CACHE
4TB	ST4000NM0033	SATA 6Gb/s	128MB
4TB	ST4000NM0053 <sup>1</sup>	SATA 6Gb/s	128MB
4TB	ST4000NM0023	6Gb/s SAS	128MB
4TB	ST4000NM0043 <sup>1</sup>	6Gb/s SAS	128MB
4TB	ST4000NM0063 <sup>1,5</sup>	6Gb/s SAS	128MB
3TB	ST3000NM0033	SATA 6Gb/s	128MB
3TB	ST3000NM0053 <sup>1</sup>	SATA 6Gb/s	128MB
3TB	ST3000NM0023	6Gb/s SAS	128MB
3TB	ST3000NM0043 <sup>1</sup>	6Gb/s SAS	128MB
3TB	ST3000NM0063 <sup>1,5</sup>	6Gb/s SAS	128MB
2TB	ST2000NM0033	SATA 6Gb/s	128MB
2TB	ST2000NM0053 <sup>1</sup>	SATA 6Gb/s	128MB
2TB	ST2000NM0023	6Gb/s SAS	128MB
2TB	ST2000NM0043 <sup>1</sup>	6Gb/s SAS	128MB
2TB	ST2000NM0063 <sup>1,5</sup>	6Gb/s SAS	128MB
1TB	ST1000NM0033	SATA 6Gb/s	128MB
1TB	ST1000NM0053 <sup>1</sup>	SATA 6Gb/s	128MB
1TB	ST1000NM0023	6Gb/s SAS	128MB
1TB	ST1000NM0043 <sup>1</sup>	6Gb/s SAS	128MB
1TB	ST1000NM0063 <sup>1,5</sup>	6Gb/s SAS	128MB



## Constellation® ES.2

The Seagate Constellation ES.2 drive offers the highest capacities with nearline performance, enterprise-class reliability, high data integrity and data security.

### Key Advantages

- Highest-capacity enterprise drive for demanding data growth
- SAS and SATA drives designed for 24×7 reliability
- Best-in-class enhanced rotational vibration tolerance
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity bulk-data storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance
- Cloud storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
3TB	ST33000650NS	SATA 6Gb/s	64MB
3TB	ST33000651NS <sup>2</sup>	SATA 6Gb/s	64MB
3TB	ST33000652NS <sup>2,3</sup>	SATA 6Gb/s	64MB
3TB	ST33000650SS	6Gb/s SAS	64MB
3TB	ST33000651SS <sup>2</sup>	6Gb/s SAS	64MB
3TB	ST33000652SS <sup>2,3</sup>	6Gb/s SAS	64MB
2TB	ST32000645NS	SATA 6Gb/s	64MB
2TB	ST32000646NS <sup>2</sup>	SATA 6Gb/s	64MB
2TB	ST32000647NS <sup>2,3</sup>	SATA 6Gb/s	64MB
2TB	ST32000645SS	6Gb/s SAS	64MB
2TB	ST32000646SS <sup>2</sup>	6Gb/s SAS	64MB
2TB	ST32000647SS <sup>2,3</sup>	6Gb/s SAS	64MB

## Constellation® ES

Seagate Constellation ES 3.5-inch hard drives offer the highest capacity at 2TB while providing enterprise robustness for seamless enterprise integration.

### Key Advantages

- Enterprise nearline drive designed for 24x7 operation
- Best-in-class rotational vibration tolerance
- Multi-drive firmware maximizes system availability.
- Optimal power savings with PowerChoice™ technology
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity data center storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore
- Cloud storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
2TB	ST2000NM0011	SATA 6Gb/s	64MB
2TB	ST2000NM0031 <sup>2</sup>	SATA 6Gb/s	64MB
2TB	ST2000NM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
2TB	ST2000NM0001	6Gb/s SAS	64MB
2TB	ST2000NM0021 <sup>2</sup>	6Gb/s SAS	64MB
2TB	ST2000NM0041 <sup>2,3</sup>	6Gb/s SAS	64MB
1TB	ST1000NM0011	SATA 6Gb/s	64MB
1TB	ST1000NM0031 <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST1000NM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
1TB	ST1000NM0001	6Gb/s SAS	64MB
1TB	ST1000NM0021 <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST1000NM0041 <sup>2,3</sup>	6Gb/s SAS	64MB
500GB	ST500NM0011	SATA 6Gb/s	64MB
500GB	ST500NM0031 <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST500NM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
500GB	ST500NM0001	6Gb/s SAS	64MB
500GB	ST500NM0021 <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST500NM0041 <sup>2,3</sup>	6Gb/s SAS	64MB

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup>Seagate Instant Secure Erase Models

<sup>3</sup>DOR2 Cache

<sup>4</sup>Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

<sup>5</sup>FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2011.htm#1635>.

<sup>6</sup>Based on maximum use of multiple 3.5-inch HDDs in standard 42U 19-inch rack.

## Constellation® CS

The Seagate Constellation CS enterprise value hard drive is designed for vast amounts of unstructured data in the cloud..

### Key Advantages

- Affordable storage for 24x7 cloud data center replicated environments
- High vibration tolerance for reliable performance
- Save on power and cooling costs with the lowest 3.5-inch enterprise drive operating power.
- Advanced format logical block management
- Lower TCO with Seagate Instant Secure Erase
- Maximize your cloud storage with up to 114TB per square foot.<sup>6</sup>

### Best-Fit Applications

- Cloud storage servers and arrays
- Cloud backup storage
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)



CAPACITY	MODEL	INTERFACE	CACHE
3TB	ST3000NC002	SATA 6Gb/s	64MB <sup>3</sup>
3TB	ST3000NC000 <sup>2</sup>	SATA 6Gb/s	64MB <sup>3</sup>
2TB	ST2000NC001	SATA 6Gb/s	64MB <sup>3</sup>
2TB	ST2000NC000 <sup>2</sup>	SATA 6Gb/s	64MB <sup>3</sup>
1TB	ST1000NC001	SATA 6Gb/s	64MB <sup>3</sup>
1TB	ST1000NC000 <sup>2</sup>	SATA 6Gb/s	64MB <sup>3</sup>

## Constellation.2™

The Seagate Constellation.2 drive is the only 2.5-inch enterprise-class hard drive delivering both 1TB capacities and enterprise reliability.

### Key Advantages

- Maximizes data center footprint with up to 76TB/sq.ft.
- Energy-efficient storage at under 3.9W (idle)
- Highest nearline reliability with an MTBF of 1.4M hours
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Storage-hungry business applications
- Storage area networks and network attached storage
- Maximum-capacity servers and blade servers
- Rich media content storage
- Enterprise backup and restore—D2D, virtual tape
- Cloud computing



CAPACITY	MODEL	INTERFACE	CACHE
1TB	ST91000640NS	SATA 6Gb/s	64MB
1TB	ST91000641NS <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST91000642NS <sup>2,3</sup>	SATA 6Gb/s	64MB
1TB	ST91000640SS	6Gb/s SAS	64MB
1TB	ST91000641SS <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST91000642SS <sup>2,3</sup>	6Gb/s SAS	64MB
500GB	ST9500620NS	SATA 6Gb/s	64MB
500GB	ST9500621NS <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST9500622NS <sup>2,3</sup>	SATA 6Gb/s	64MB
500GB	ST9500620SS	6Gb/s SAS	64MB
500GB	ST9500621SS <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST9500622SS <sup>2,3</sup>	6Gb/s SAS	64MB
250GB	ST9250610NS	SATA 6Gb/s	64MB
250GB	ST9250611NS <sup>2</sup>	SATA 6Gb/s	64MB
250GB	ST9250612NS <sup>2,3</sup>	SATA 6Gb/s	64MB





## Pulsar.2™

The Seagate Pulsar.2 drive delivers the price-performance, data integrity and endurance benefits for performance-hungry enterprise applications.



### Key Advantages

- Best-in-class MLC endurance (up to 10 full drive writes/day)
- Price-performance and reliability benefits
- Protects against unintended data change or loss—ensuring data integrity
- Provides the same feature set to look, feel and act like an enterprise hard drive—reducing system complexity and operating costs

### Best-Fit Applications

- Tier 0, performance-hungry enterprise applications—virtualization, OLTP, data warehousing and cloud computing
- Blade servers, general servers and direct-attached storage
- Enterprise architectures using auto-tiering

CAPACITY <sup>1</sup>	MODEL	INTERFACE	FULL DRIVE WRITES/DAY <sup>4</sup>
800GB	ST800FM0002	6Gb/s SAS	10
800GB	ST800FM0012 <sup>2</sup>	6Gb/s SAS	10
400GB	ST400FM0002	6Gb/s SAS	10
400GB	ST400FM0012	SATA 6Gb/s	10
200GB	ST200FM0002	6Gb/s SAS	10
200GB	ST200FM0012	SATA 6Gb/s	10
100GB	ST100FM0002	6Gb/s SAS	10
100GB	ST100FM0012	SATA 6Gb/s	10

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

<sup>2</sup>Self-Encrypting Drive models may require TCG-compliant host or controller support.

<sup>3</sup>See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

<sup>4</sup>Data provided is based on format at 512 bytes.

# Video Storage Solutions

## Storage solutions for DVRs and surveillance systems

Seagate has the global presence to provide the supply and support for CE integrators as well as a complete business and technology partnership for the video storage market.



## Product Comparison



	PIPELINE HD®	SV35 SERIES™
Application	Mainstream CE-DVR	Video Surveillance
Description	Cool, quiet, low-power performance—perfect for high-definition consumer DVR applications	Optimized performance, power savings and improved reliability for video surveillance applications
Form Factor	3.5-inch	3.5-inch
Performance	Multi-room video delivery of at least ten simultaneous HD streams	7200 RPM
Reliability (AFR)	0.55%	<1%
Max. Ext. Transfer Rate	300MB/s to 600MB/s	600MB/s
Capacity <sup>1</sup>	250GB to 2TB	1TB to 3TB
Interface	SATA 3Gb/s, SATA 6Gb/s	SATA 6Gb/s
Cache	8MB to 64MB	64MB
Power (Idle)	2.9W to 4.9W	3.36W to 5.4W (Idle2)

## Feature Comparison



	3.5-Inch CE-DVR	Video Surveillance
Application	Pipeline HD	SV35 Series
SATA Interface	x	x
Low Power	x	
Quiet Acoustics	x	
Cool Operation	x	x
Sustainable Technology	x	
Best-in-Class Performance	x	x
Capacity Leadership	x	
24x7 Operation Capable	x	x
Extremely Low Vibration	x	

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.



## Pipeline HD®

Seagate Pipeline HD drives deliver unprecedented levels of acoustic, power and vibration performance with room for hundreds of your favorite movies.

### Key Advantages

- Virtually silent streaming performance as low as 19dB
- 75°C, 24-hour operation capable
- Operational power consumption as low as 3.4W
- 2.0A spin-up current limited

### Best-Fit Applications

- Consumer digital video recorders
- Media servers and centers
- Home theater PCs and servers
- Cable, satellite and IPTV set-top boxes



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
2TB	ST2000MM003	SATA 3Gb/s	64MB
1TB	ST1000MM002	SATA 3Gb/s	64MB
500GB	ST3500312CS	SATA 3Gb/s	8MB
320GB	ST3320311CS	SATA 3Gb/s	8MB
250GB	ST3250312CS	SATA 3Gb/s	8MB

## SV35 Series™

The Seagate SV35 series drives optimize performance, save power and improve reliability for video surveillance applications.

### Key Advantages

- Higher areal density for cost-effective DVR applications
- Performance-tuned for seamless video applications
- Enterprise-class reliability for 24x7 video surveillance applications
- Built-in error recovery for non-stop streaming

### Best-Fit Applications

- Video surveillance digital video recorder
- Video surveillance network digital video recorder
- Direct-attached JBOD video surveillance storage
- Network-attached JBOD video storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
3TB	ST3000VX000	SATA 6Gb/s	64MB
2TB	ST2000VX000	SATA 6Gb/s	64MB
1TB	ST1000VX000	SATA 6Gb/s	64MB



## Partner Resources and Benefits

The Seagate Partner Program (SPP) provides access to unique resources and benefits to help channel partners secure new opportunities and grow revenue and profitability.

As a registered SPP member, you enjoy the following exclusive features:

- Password-protected portal
- E-newsletter and regular news updates
- New product evaluation unit program
- Training and sales tools
- Priority support

Start reaping the rewards of SPP membership—register today at [www.seagate.com/partners](http://www.seagate.com/partners)

- Complete the online form.
- Click through and accept our standard agreement.

## Service and Support

For information regarding products and services, visit [www.seagate.com/about/contact-us/technical-support](http://www.seagate.com/about/contact-us/technical-support)

Available services include:

- Presales and Technical Support
- Global Support Services telephone numbers and business hours
- Authorized Seagate Service Centers

For information regarding Warranty Support, visit [www.seagate.com/support/warranty-and-returns](http://www.seagate.com/support/warranty-and-returns)

For information regarding Data Recovery Services, visit [services.seagate.com](http://services.seagate.com)

For Seagate OEM and Distribution partner portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)

For Seagate reseller portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)



**FED\_SEAG0031474****Metadata**

<b>Attach Counts</b>	0	ORIGINAL
<b>Custodian</b>	No_Custodian	ORIGINAL
<b>DATECREATED</b>	10/25/2012	ORIGINAL
<b>DATELASTMOD</b>	10/26/2012	ORIGINAL
<b>DOEXT</b>	pdf	ORIGINAL
<b>DOCTYPE</b>	Adobe Portable Document Format	ORIGINAL
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<b>RecordType</b>	E-DOC	ORIGINAL
<b>Relativity Image Count</b>	40	ORIGINAL
<b>Relativity Native Time Zone Offset</b>	-8.00	ORIGINAL
<b>TIMECREATED</b>	1:28 PM	ORIGINAL
<b>TimeLastMod</b>	9:00 AM	ORIGINAL

# **EXHIBIT 18**





# Storage Solutions Guide

OCTOBER 2013 | AMER

## ROOM TO GROW

Double the storage.  
Half the space.



### **New 8-Bay Rackmount NAS**

The first 1U rack that  
fits 8x 3.5" drives

Make the perfect gift **complete.**



Complete your tablet with  
1TB of storage to carry and stream 500+  
movies or thousands of songs.  
No internet required.



Wireless Plus  
Mobile Device Storage



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# External Storage

At-a-Glance Product Comparison

	BACKUP PLUS						SLIM		EXPANSION	
Direct Attached/ Portable										
	Backup Plus Portable	Backup Plus Portable for Mac	Backup Plus for Mac Portable Thunderbolt™	Backup Plus Desktop	Backup Plus Desktop for Mac	Backup Plus for Mac Desktop Thunderbolt	Slim Portable	Slim Portable for Mac	Expansion Portable	Expansion Desktop
PERFECT FOR	Protecting and sharing digital memories			Keeping your digital life safe and sound			Thin storage that fits—and goes—anywhere		Protecting and sharing your digital life	
DESCRIPTION	Store and back up the content on your social networks with these flexible, portable drives. PC or Mac.			These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.			This ultra-thin metal design is the world's sleekest portable external hard drive. PC or Mac.		Expansion drives allow you to instantly add more storage space to your computer and take large files with you.	
LEARN MORE	Page 5	Page 6	Page 6	Page 8	Page 7	Page 7	Page 9	Page 8	Page 10	Page 9

Wireless Mobile		Network Attached							
	Wireless Plus			Business Storage 8-Bay Rackmount NAS	Business Storage 4-Bay Rackmount NAS	Business Storage 4-Bay NAS	Business Storage 4-Bay NAS	Business Storage 2-Bay NAS	Central
PERFECT FOR	Wireless storage for your tablet	PERFECT FOR		Centralized storage and backup			Centralized storage, collaboration and backup		Wireless centralized home storage
DESCRIPTION	Take your media library on the go and stream it wirelessly to your iPad, Android tablet and smartphone. PC or Mac.	DESCRIPTION		The first 1U rack that fits eight hot-swappable 3.5-inch drives	A complete, high-performance network storage for businesses with up to 100 employees	A complete network storage solution and private cloud for businesses of up to 50 employees.	A complete network storage solution and private cloud for businesses of up to 25 employees.	A complete network storage solution and private cloud for home offices.	This shared storage device automatically backs up multiple Macs and PCs plus streams your shared library to the connected devices in the home.
LEARN MORE	Page 10	LEARN MORE		Page 11	Page 12	Page 12	Page 13	Page 13	Page 11

# External Storage Solutions

Seagate external storage solutions are sleek, dependable and ultra-portable products that let your customers automatically and continuously store digital family photos, protect critical business data, back up multiple computers on a small network, or share and store videos and music.

## Backup Plus

The Backup Plus portable drive is the simple way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Thunderbolt technology or FireWire 800 upgrade allows higher transfer speeds

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBU1000100	USB 3.0	● Black	PC, Mac
1TB	STBU1000101	USB 3.0	● Silver	PC, Mac
1TB	STBU1000102	USB 3.0	● Blue	PC, Mac
1TB	STBU1000103	USB 3.0	● Red	PC, Mac
750GB	STBU750100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			



<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> U.S. model numbers shown



# Backup Plus for Mac


The Backup Plus portable drive for Mac is the simple way to protect and share your entire digital life.

## Key Advantages

- Mac OS and Time-Machine ready out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Easily increase transfer speeds by upgrading to Thunderbolt technology.

## Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000900	USB 3.0	● Silver/ ○ White	Mac, PC
PRODUCT DIMENSIONS	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
PACKAGE DIMENSIONS	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			

# Backup Plus Desktop for Mac


The Backup Plus desktop drive for Mac is the simple, one-click way to protect and share your entire digital life.

## Key Advantages

- Mac OS and Time Machine ready right out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Up to 3TB capacity for a lifetime of memories

## Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STCB4000901	USB 3.0	● Black/ ● Silver	Mac, PC
3TB	STCB3000900	USB 3.0	● Black/ ● Silver	Mac, PC
2TB	STCB2000900	USB 3.0	● Black/ ● Silver	Mac, PC
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)			
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

# Backup Plus for Mac Portable Thunderbolt™


The Thunderbolt Backup Plus for Mac portable drive is everything you need to transfer, store and back up files using Thunderbolt technology.

## Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Compatible with Time Machine software
- Compatible with Thunderbolt devices
- No external power supply required

## Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gbps

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000401	Thunderbolt	● Black	Mac, PC
PRODUCT DIMENSIONS	5.12-in L x 3.19-in W x 1.09-in D (130mm x 81mm x 27.8mm)			
PACKAGE DIMENSIONS	6.69-in L x 5.24-in W x 1.81-in D (170mm x 133mm x 46mm)			

# Backup Plus for Mac Desktop Thunderbolt


The Thunderbolt Backup Plus for Mac desktop drive is everything you need to transfer, store and back up files using Thunderbolt technology.

## Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Dual ports enable daisy-chaining up to six devices
- Compatible with Thunderbolt displays and other devices
- Compatible with Time Machine softwares

## Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gbps

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STCB3000400	Thunderbolt	● Black	Mac, PC
PRODUCT DIMENSIONS	6.61-in L x 4.76-in W x 2.42-in D (168mm x 120.9mm x 61.4mm)			
PACKAGE DIMENSIONS	8.64-in L x 9.13-in W x 3.5-in D (219.5mm x 232mm x 89mm)			

# Backup Plus Desktop


The Backup Plus desktop drive is the simple, one-click way to protect and share your entire digital life.

## Key Advantages

- Easy, flexible, built-in backup options
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Up to 4TB capacity for a lifetime of memories
- Increase transfer speeds by upgrading to Thunderbolt technology or FireWire 800.

## Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STCA4000100	USB 3.0	● Black	PC, Mac
3TB	STCA3000101	USB 3.0	● Black	PC, Mac
2TB	STCA2000100	USB 3.0	● Black	PC, Mac
1TB	STCA1000100	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)			
PACKAGE DIMENSIONS	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

# Slim

The Seagate Slim portable drive is thin, light and the easiest way yet to back up the things that are important to you.

## Key Advantages

- Just slightly thicker than an iPhone
- Protects your stuff with easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

## Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
500GB	STCD500102	USB 3.0	● Black	PC, Mac
500GB	STCD500104	USB 3.0	● Silver	PC, Mac
PRODUCT DIMENSIONS	4.47-in L x 2.99-in W x 0.38-in D (113.5mm x 76mm x 9.6mm)			
PACKAGE DIMENSIONS	5.59-in L x 1.22-in W x 4.06-in D (142mm x 31mm x 103mm)			

# Slim for Mac


The Seagate Slim portable drive for Mac combines a thin, light form factor in a Time Machine-ready drive.

## Key Advantages

- Just slightly thicker than an iPhone
- Mac OS and Time Machine ready out of the box
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

## Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
500GB	STCF500102	USB 3.0	● Silver	Mac, PC
PRODUCT DIMENSIONS	4.47-in L x 2.99-in W x 0.38-in D (113.5mm x 76mm x 9.6mm)			
PACKAGE DIMENSIONS	5.59-in L x 1.22-in W x 4.06-in D (142mm x 31mm x 103mm)			

# Expansion


The Expansion desktop drive provides extra storage for your ever-growing collection of files.

## Key Advantages

- Simple and straightforward setup
- No software to install and nothing to configure
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

## Best-Fit Applications

- Instantly add more storage space to your computer.
- Improve performance on your computer's internal drive by freeing up space on your internal drive.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STBV4000100	USB 3.0	● Black	PC
3TB	STBV3000100	USB 3.0	● Black	PC
2TB	STBV2000100	USB 3.0	● Black	PC
1TB	STBV1000100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS	7.07-in L x 4.65-in W x 1.48-in D (179.5mm x 118mm x 37.5mm)			
PACKAGE DIMENSIONS	9.09-in L x 7.97-in W x 2.83-in D (231mm x 202mm x 72mm)			

# Expansion


The Expansion portable drive is compact and perfect for taking large files with you on-the-go.

## Key Advantages

- Simple and straightforward setup
- Powered from the USB cable
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

## Best-Fit Applications

- Instantly add more storage space to your computer.
- Take large files with you when you travel.

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBX1000101	USB 3.0	● Black	PC
750GB	STBX750100	USB 3.0	● Black	PC
500GB	STBX500100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS (1TB)	5.04-in L x 3.51-in W x 0.87-in D (128.1mm x 89.1mm x 22mm)			
PRODUCT DIMENSIONS (500GB)	4.81-in L x 3.19-in W x 0.61-in D (122.3mm x 81.1mm x 15.5mm)			
PACKAGE DIMENSIONS	5.28-in L x 6.69-in W x 1.89-in D (134mm x 170mm x 48mm)			

# Central


The Central shared network storage system allows you to create secure in-home cloud storage for multiple computers in the home.

## Key Advantages

- Automatically back up multiple PC and Mac computers
- Wirelessly stream your centralized media library to gaming consoles, media players and smart TVs
- Access content on-the-go with a Web browser or the free app for tablets and smartphones

## Best-Fit Applications

- Consolidate content on one easily accessible device
- Back up multiple PC and Mac computers
- Enjoy a centralized media library on smart TVs, game consoles and media players
- Access your content on-the-go with laptops and mobile devices
- Archive your Facebook photos and videos

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STCG4000100	SATA/GigE	● Black	PC, Mac
3TB	STCG3000100	SATA/GigE	● Black	PC, Mac
2TB	STCG2000100	SATA/GigE	● Black	PC, Mac
PRODUCT DIMENSIONS	5.7-in L x 8.5-in W x 1.7-in D (145mm x 216mm x 42mm)			
PACKAGE DIMENSIONS	3.15-in L x 10.3-in W x 9.25-in D (80mm x 261mm x 235mm)			

# Wireless Plus


With Wireless Plus mobile device storage, you can take your media library with you. Stream it to your iPad or Android tablet.

## Key Advantages

- Take your media library with you on the go
- Share media with up to eight Wi-Fi enabled devices at the same time
- Use anywhere, without an Internet connection
- Up to 10 hours battery life<sup>3</sup>

## Best-Fit Applications

- Store and carry movies and other media on the go.
- Share media with others.
- Works with iPad or Android tablets and smartphones

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STCK1000100	USB 3.0	● Grey	PC, Mac
PRODUCT DIMENSIONS	5.00-in L x 3.50-in W x 0.78-in D (127mm x 89mm x 19.9mm)			
PACKAGE DIMENSIONS	2.00-in L x 6.02-in W x 7.16-in D (51mm x 153mm x 182mm)			

# Business Storage 8-Bay Rackmount NAS


A complete network storage solution with innovative 8-bay design in a 1U form factor that is perfect for growing businesses

## Key Advantages

- A 2.3GHz dual-core Intel processor delivers file transfer performance of up to 200MB/s
- Wuala™ cloud service and apps for secure collaboration and anywhere access
- Centralized backup for PCs, plus Time Machine support for Mac computers
- Support for iSCSI enables maximum performance and compatibility for virtualized environments

## Best-Fit Applications

- Store business-critical files centrally and securely
- Back up your organization's PC and Mac computers
- Access and manage files remotely using Internet-connected computers and devices
- Back up files to the cloud

				
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
32TB	STDP32000100	Gigabit Ethernet	Black	PC, Mac
24TB	STDP24000100	Gigabit Ethernet	Black	PC, Mac
16TB	STDP16000100	Gigabit Ethernet	Black	PC, Mac
12TB	STDP12000100	Gigabit Ethernet	Black	PC, Mac
8TB	STDP8000100	Gigabit Ethernet	Black	PC, Mac
PRODUCT DIMENSIONS	30.394-in L x 1.713-in W x 18.78-in D (772mm x 43.5mm x 477mm)			
PACKAGE DIMENSIONS	35.354-in L x 23.465-in W x 8.661-in D (898mm x 596mm x 220mm)			

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> U.S. model numbers shown  
<sup>3</sup> Exact battery life subject to product model, normal usage conditions and configurations.

# Business Storage 4-Bay Rackmount NAS

Centralize your storage and backups with a complete network storage solution that saves valuable floor space for small businesses.

### Key Advantages

- Centralized storage and backup for PCs and Macs, plus secure Wuala cloud off-site backup service
- A dual-core Intel Atom processor and new, performance-optimized Seagate NAS OS deliver file transfer speeds up to 200MB/s
- Anywhere access to your files
- Hot-swappable drives and dual Gigabit Ethernet ports help increase up-time

### Best-Fit Applications

- Store business-critical files centrally and securely
- Back up your organization's PC and Mac computers
- Access and manage files remotely using Internet-connected computers and devices
- Back up files to the cloud



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
16TB	STDN16000100	Gigabit Ethernet	● Black	PC, Mac
12TB	STDN12000100	Gigabit Ethernet	● Black	PC, Mac
8TB	STDN8000100	Gigabit Ethernet	● Black	PC, Mac
4TB	STDN4000100	Gigabit Ethernet	● Black	PC, Mac
—	STDN100	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	16.929-in L x 15-in W x 1.713-in D (430mm x 381mm x 42.5mm)			
PACKAGE DIMENSIONS	22.44-in L x 19.567-in W x 6.496-in D (570mm x 497mm x 164mm)			

# Business Storage 2-Bay NAS

Create a private cloud to help protect your business-critical data and centralize files in a single location you can access from anywhere

### Key Advantages

- Easy 10-minute setup
- Upload and download files with free apps for iPhone, iPad and Android devices
- Full-system, automatic backup for PCs, plus Time Machine support for Mac computers
- Customize performance and data redundancy with RAID 0 and 1 configuration options

### Best-Fit Applications

- Make automatic, continuous backups of multiple PC and Mac computers
- Store files in a secure, central location
- Access and manage files remotely using Internet-connected computers, tablets and smartphones
- Create cost-effective, private cloud storage



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
8TB	STBN8000100	Gigabit Ethernet	● Black	PC, Mac
6TB	STBN6000100	Gigabit Ethernet	● Black	PC, Mac
4TB	STBN4000100	Gigabit Ethernet	● Black	PC, Mac
—	STBN100	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	4.1-in W x 8.0-in H x 8.9-in D (104.50mm x 204.00mm x 227.00mm)			
PACKAGE DIMENSIONS	6.2-in W x 10.9-in H x 12.5-in D (157.00mm x 277.00mm x 317.00mm)			

# Business Storage 4-Bay NAS

A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations

### Key Advantages

- Easy 10-minute setup
- Upload and download files with free apps for iPhone, iPad and Android devices
- Full-system, automatic backup for PCs, plus Time Machine support for Mac computers
- Customize performance and data redundancy with RAID 0, 1, 5 and 10 configuration options

### Best-Fit Applications

- Make automatic, continuous backups
- Store files in a secure, central location
- Access and manage files remotely using Internet-connected devices
- Create cost-effective, private cloud storage
- Encrypt individual files to entire volumes of data



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
16TB	STBP16000100	Gigabit Ethernet	● Black	PC, Mac
12TB	STBP12000100	Gigabit Ethernet	● Black	PC, Mac
8TB	STBP8000100	Gigabit Ethernet	● Black	PC, Mac
4TB	STBP4000100	Gigabit Ethernet	● Black	PC, Mac
—	STBP100	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	6.3-in W x 8.2-in H x 10.2-in D (161.00mm x 208.00mm x 258.50mm)			
PACKAGE DIMENSIONS	9.4-in W x 14.9-in H x 9.4-in D (240.00mm x 379.00mm x 243.00mm)			

# Business Storage 1-Bay NAS

Create a private cloud with Seagate Business Storage 1-Bay NAS. It helps protect your all-important data and centralizes your files in a single location you can access from anywhere.

### Key Advantages

- Easy 10-minute setup
- Upload and download files with free apps for iPhone, iPad and Android devices
- Full-system, automatic backup for PCs, plus Time Machine support for Mac computers
- Stream your media library to networked computers, Internet TVs, game consoles and more

### Best-Fit Applications

- Make automatic, continuous backups of multiple PC and Mac computers
- Store files in a secure, central location
- Access and manage files remotely using Internet-connected computers, tablets and smartphones
- Create cost-effective, private cloud storage























CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
4TB	STBM4000100	Gigabit Ethernet	● Black	PC, Mac
3TB	STBM3000100	Gigabit Ethernet	● Black	PC, Mac
2TB	STBM2000100	Gigabit Ethernet	● Black	PC, Mac
PRODUCT DIMENSIONS	2.4-in W x 6.9-in H x 5.8-in D (61mm x 176mm x 148mm)			
PACKAGE DIMENSIONS	3.7-in W x 9.3-in H x 9.0-in D (93mm x 236mm x 229mm)			



# Internal Storage

## At-a-Glance Product Comparison

	ENTERPRISE			DESKTOP		SPECIALTY		
3.5-inch								
	Cheetah® 15K	Enterprise Capacity 3.5 HDD	Terascale™ HDD	Desktop SSHD	Desktop HDD	NAS HDD	SV35 Series™	Video 3.5 HDD
USE THIS DRIVE FOR	High-capacity, compute-intensive requirements demanding high performance and availability	Bulk-data applications requiring reliable, highest-capacity storage efficiency and enterprise-class reliability	Cost-effective, low-power bulk storage solutions for unstructured data	Desktop solutions requiring SSD-like performance and massive capacities at an affordable price	Desktop compute where choice in capacity and cache options to provide design flexibility is important	Small NAS systems needing performance with high capacities. 3-year limited warranty	Surveillance systems that require high performance, low power and centralized storage or every surveillance application. 3-year limited warranty	DVR systems where reliable, low-power, purpose-built storage is required for video streaming applications. 3-year limited warranty
ENCRYPTION MODELS AVAILABLE	X	X						
LEARN MORE	Page 25	Page 26	Page 28	Page 32	Page 32	Page 42	Page 42	Page 43

	SSD			ENTERPRISE SSHD	ENTERPRISE			MOBILE			SPECIALTY	
2.5-inch												
	1200 SSD	600 Pro SSD	600 SSD	Enterprise Turbo SSHD	Enterprise Performance 15K HDD	Enterprise Performance 10K HDD	Constellation®	Laptop SSHD and Laptop Thin SSHD	Momentus® Thin	Laptop Ultrathin HDD	Ultra Mobile HDD	Video 2.5 HDD
USE THIS DRIVE FOR	Enterprise storage environments requiring high-capacity SSD with data integrity and drive endurance	Data center and cloud applications that require fast performance and low power	On-the-go users who need the fastest performance and improved ruggedness	Improved storage performance tier between SSDs and high-capacity HDDs	Compute-intensive data requirements demanding the highest HDD performance density and availability	Mainstream data requiring high capacity, performance density and reliability	Online reference data demands requiring cost-effective, low-power, enterprise-class drives	The ultimate mobile computing experience, with SSD-like performance for all applications and OS environments	Slim computing devices, such as laptops and netbooks	Slim laptops and devices that need light, affordable, high-capacity storage	Robust storage for high-capacity tablets and mobile applications	Video streaming where 24x7 operation, small form factor and low power consumption are needed, 3-year limited warranty
ENCRYPTION MODELS AVAILABLE			X	X	X	X	X		X	X		
LEARN MORE	Page 18	Page 18	Page 19	Page 22	Page 22	Page 24	Page 27	Page 36	Page 36	Page 37	Page 37	Page 43

# Solid State Drive Solutions

Seagate is committed to the flash-based storage market, as is evident by its line of enterprise and client SSDs, engineered to deliver ultra-fast speed and high data integrity. Seagate is focused on the continuing technology leadership that allows it to be a premier supplier of both solid state drives and hard drives.



**SPEED**  
Seagate SSDs  
offer ultra-fast  
performance



Legacy Name		1200 SSD	600 Pro SSD	600 SSD
Product Comparison	Description	Ultra-fast, consistent performance for demanding enterprise storage and server applications	Fast performance and low power for performance-hungry data center and cloud applications	Speed up your laptop with SSD performance and ruggedness
	Form Factor/z-Height	2.5-inch/7mm	2.5-inch/7mm	2.5-inch/5mm, 7mm
	Reliability	0.44% AFR	0.58% AFR	0.58% AFR
	Capacity <sup>1</sup>	200GB to 800GB	100GB to 480GB	120GB to 480GB
	Endurance (total terabytes written over warranty period)	3650TBW to 14,600TBW	24TBW to 1080TBW	36.5TBW to 73TBW
	NAND Flash Type	MLC	MLC	MLC
	Power (Idle)	2.72W to 3.0W	1.05W to 1.25W	1.1W
	Interface	12Gb/s SAS	SATA 6Gb/s	SATA 6Gb/s
	Limited Warranty <sup>4</sup>	5 years	5 years	3 years
Feature Comparison	Product	1200 SSD	600 Pro SSD	600 SSD
	Self-Encrypting Drive (SED) Option <sup>2</sup>	X		
	FIPS 140-2 SED Option <sup>2, 3</sup>	X		
	Power Loss Data Protection	X	X	

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
2 Self-Encrypting Drive models may require TCG-compliant host or controller support.  
3 Some FIPS in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
4 Warranty terms may vary based on usage. Consult your Seagate sales representative for warranty terms and conditions.

# 1200 SSD

The Seagate 1200 SSD delivers best-in-class performance and a rich enterprise feature set for demanding data center applications.

## Key Advantages

- Helps remove storage bottlenecks and close the gap between processor and data access performance
- Delivers the speed and performance consistency needed for demanding enterprise applications
- Designed to reduce data access wait times under the most complex, write-intensive workloads
- Ensures data availability for critical production systems by using redundant, failover I/O communication paths

## Best-Fit Applications

- Demanding enterprise applications with complex, write-intensive and mixed workloads
- IOPS-hungry enterprise applications, such as high-performance computing, online transaction processing and heavy data analytics
- External enterprise storage solutions (SAN, NAS, DAS)



CAPACITY <sup>1</sup>	MODEL	INTERFACE	NAND FLASH TYPE
800GB	ST800FM0053 <sup>2</sup>	SATA 12Gb/s	MLC
800GB	ST800FM0063 <sup>2,3</sup>	SATA 12Gb/s	MLC
400GB	ST400FM0073 <sup>2</sup>	SATA 12Gb/s	MLC
200GB	ST200FM0073 <sup>2</sup>	SATA 12Gb/s	MLC

# 600 SSD


The ultimate performance upgrade for existing laptops, the Seagate 600 SSD is a fast, rugged, 2.5-inch, SATA 6Gb/s solid state drive.

## Key Advantages

- Nearly 4x faster boot times and over 2x faster application load times than typical laptop HDDs
- Significantly reduces the amount of time end users must wait before using their devices
- Allows end users to access data faster and to take advantage of superior laptop responsiveness
- The ultimate upgrade drive for road warriors, power users, executives and gamers—work and play faster

## Best-Fit Applications

- Performance upgrade for existing laptops with 2.5-inch hard drives
- Improved ruggedness upgrade for existing laptops that may be dropped while operating
- Data center caching



CAPACITY <sup>1</sup>	7MM Z-HT MODEL	INTERFACE	NAND FLASH TYPE
480GB	ST480HM000	SATA 6Gb/s	MLC
240GB	ST240HM000	SATA 6Gb/s	MLC
120GB	ST120HM000	SATA 6Gb/s	MLC

CAPACITY <sup>1</sup>	5MM Z-HT MODEL	INTERFACE	NAND FLASH TYPE
480GB	ST480HM001	SATA 6Gb/s	MLC
240GB	ST240HM001	SATA 6Gb/s	MLC
120GB	ST120HM001	SATA 6Gb/s	MLC

# 600 Pro SSD

A class above client SSDs, Seagate 600 Pro SSDs deliver a best-in-class combination of fast, consistent performance and low power.

## Key Advantages

- Delivers the highest IOPS/watt to improve system performance and reduce power and cooling costs for data center and cloud applications
- Fast, consistent performance and low latency over the warranty period of the drive
- Helps reduce performance gaps between storage I/O and CPU operations

## Best-Fit Applications

- Data center applications (fast data indexing, edge caching)
- Data streaming
- Content delivery networks
- Gaming and software delivery
- Virtualization and other cloud applications



CAPACITY <sup>1</sup>	MODEL	INTERFACE	NAND FLASH TYPE
480GB	ST480FP0021	SATA 6Gb/s	MLC
400GB	ST400FP0021	SATA 6Gb/s	MLC
240GB	ST240FP0021	SATA 6Gb/s	MLC
200GB	ST200FP0021	SATA 6Gb/s	MLC
120GB	ST120FP0021	SATA 6Gb/s	MLC
100GB	ST100FP0021	SATA 6Gb/s	MLC



<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries.  
May require TCG-compliant host or controller support.  
<sup>3</sup> FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/validation.html>



# Enterprise Storage Solutions

With more than 30 years of experience and the broadest storage product portfolio available, Seagate consistently designs, builds and supports industry-leading enterprise hard drives, solid state drives and hybrid drives. Seagate has the global presence, processes and resources to support businesses of all sizes with the highest-quality enterprise storage products.



ENTERPRISE TURBO SSHD	ENTERPRISE PERFORMANCE HDD	CHEETAH®	ENTERPRISE CAPACITY HDD	TERASCALE™ HDD/ CONSTELLATION® CS
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Product Comparison

Legacy Name	Savvio®			Constellation	
Application	Highest SFF Performance	SFF Performance and Mainstream	LFF Performance	High Capacity and Low Power	Affordable High Capacity With Low Power
Description	World's fastest hard drive	Highest-performing, highly reliable 15K- and 10K-RPM enterprise hard drives in a 2.5-inch form factor	High-performance, legacy 15K-RPM enterprise hard drive in a 3.5-inch form factor	High-capacity, low-power, reliable 7200-RPM enterprise hard drive in both 2.5- and 3.5-inch form factors	High-capacity, eco-friendly, cost-effective storage for Web-scale data centers
Form Factor	2.5-inch	2.5-inch	3.5-inch	2.5-inch and 3.5-inch	3.5-inch
Reliability	0.44% AFR	0.44% AFR	0.55% AFR	0.62% and 1.095% AFR	800,000 MTBF
Capacity <sup>1</sup>	300GB to 900GB	300GB to 1200GB	300GB to 600GB	250GB to 4TB	1TB to 4TB
Power (Idle)	4.82W to 5.3W	4.4W to 5.3W	8.74W to 11.68W	2.52W to 7.7W	up to 4.59W
Format	5xxE, 4KN	512N, 5xxE, 4KN	512N	512N, 5xxE	512E
Interface	6Gb/s SAS	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, SATA 6Gb/s	SATA 6Gb/s
Limited Warranty <sup>4</sup>	5 years	5 years	5 years	5 years	3 years

Feature Comparison

Product	Enterprise Turbo SSHD	Enterprise Performance 15K HDD	Enterprise Performance 10K HDD	Cheetah 15K	Enterprise Capacity 3.5 HDD	Enterprise Capacity 2.5 HDD	Terascale HDD/ Constellation CS
Vibration Tolerance for Multi-Drive Stabilization	X	X	X	X	X	X	X
PowerChoice™ Optimized Idle Power Settings	X	X	X		X	X	X
Self-Encrypting Drive (SED) <sup>2</sup>	X	X	X	X	X	X	
FIPS 140-2 SED Option <sup>2,3</sup>	X	X	X	X	X	X	
Instant Secure Erase	X	X	X		X	X	X
Solid State Hybrid	X						
Energy-Saving Features	X	X	X		X	X	X
RoHS Compliance	X	X	X	X	X	X	X

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> Some FIPS in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> Warranty terms may vary based on usage. Consult your Seagate sales representative for warranty terms and conditions.



# Enterprise Turbo SSHD

The Enterprise Turbo SSHD accelerates access to your most critical data with the world’s fastest hard drive.

### Key Advantages

- Hard drive capacities with flash-based performance
- Best economic combination of performance, endurance and capacity—best \$/IOPS enterprise HDD
- Meets critical demands for performance, scalability, flexibility and high density in a 2.5-inch form factor
- Automatically caches hot data to flash and absorbs write intensity by only promoting hot data
- Nonvolatile cache to enable faster write response time and help ensure data integrity during power loss

### Best-Fit Applications

- Big data analytics
- Databases (ERP and OLTP)
- Virtual desktop infrastructure (VDI)
- Web development and Web page delivery



CAPACITY <sup>1</sup>	5XX EMULATION MODEL	INTERFACE	CACHE
600GB	ST600MX0004	6Gb/s SAS	128MB
600GB	ST600MX0014 <sup>2</sup>	6Gb/s SAS	128MB
600GB	ST600MX0024 <sup>2,3</sup>	6Gb/s SAS	128MB
450GB	ST450MX0004	6Gb/s SAS	128MB
450GB	ST450MX0014 <sup>2</sup>	6Gb/s SAS	128MB
300GB	ST300MX0004	6Gb/s SAS	128MB
300GB	ST300MX0014 <sup>2</sup>	6Gb/s SAS	128MB

CAPACITY <sup>1</sup>	4K NATIVE MODEL	INTERFACE	CACHE
600GB	ST600MX0034	6Gb/s SAS	128MB
600GB	ST600MX0044 <sup>2</sup>	6Gb/s SAS	128MB
600GB	ST600MX0054 <sup>2,3</sup>	6Gb/s SAS	128MB
450GB	ST450MX0034	6Gb/s SAS	128MB
450GB	ST450MX0044 <sup>2</sup>	6Gb/s SAS	128MB
300GB	ST300MX0034	6Gb/s SAS	128MB
300GB	ST300MX0044 <sup>2</sup>	6Gb/s SAS	128MB

# Enterprise Performance 15K HDD

Seagate Enterprise Performance 15K HDDs leverage a 2.5-inch form factor to deliver pronounced performance advantages and power savings over legacy 3.5-inch drives.

### Key Advantages

- Stores 2× the Tier 1 data over previous generation without increasing drive count
- Enables Tier 1 applications to process transactions more quickly
- Best-in-class idle power for more efficient storage operations
- Industry’s highest MTBF at 2M hours
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS SED<sup>4</sup> options cut IT drive retirement costs and help protect data at rest.

### Best-Fit Applications

- High-performance Tier 1 enterprise servers
- Blade, rack and tower servers hosting transaction-based applications
- Power- and space-constrained data centers
- Compliance and data security initiatives



CAPACITY <sup>1</sup>	5xx NATIVE MODEL	INTERFACE	CACHE
450GB	ST450MP0004	6Gb/s SAS	128MB
450GB	ST450MP0014 <sup>2</sup>	6Gb/s SAS	128MB
300GB	ST300MP0004	6Gb/s SAS	128MB
300GB	ST300MP0014 <sup>2</sup>	6Gb/s SAS	128MB

CAPACITY <sup>1</sup>	5xx EMULATION MODEL	INTERFACE	CACHE
600GB	ST600MP0034	6Gb/s SAS	128MB
600GB	ST600MP0044 <sup>2</sup>	6Gb/s SAS	128MB
600GB	ST600MP0054 <sup>2,4</sup>	6Gb/s SAS	128MB
450GB	ST450MP0034	6Gb/s SAS	128MB
450GB	ST450MP0044 <sup>2</sup>	6Gb/s SAS	128MB
300GB	ST300MP0034	6Gb/s SAS	128MB
300GB	ST300MP0044 <sup>2</sup>	6Gb/s SAS	128MB

CAPACITY <sup>1</sup>	4K NATIVE MODEL	INTERFACE	CACHE
600GB	ST600MP0064	6Gb/s SAS	128MB
600GB	ST600MP0074 <sup>2</sup>	6Gb/s SAS	128MB
600GB	ST600MP0084 <sup>2,4</sup>	6Gb/s SAS	128MB
450GB	ST450MP0064	6Gb/s SAS	128MB
450GB	ST450MP0074 <sup>2</sup>	6Gb/s SAS	128MB
300GB	ST300MP0064	6Gb/s SAS	128MB
300GB	ST300MP0074 <sup>2</sup>	6Gb/s SAS	128MB



1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
2 Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.  
3 FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2011.htm#1635>.  
4 FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/validation.html#05>

# Enterprise Performance 10K HDD

Seagate Enterprise Performance 10K HDDs deliver the optimal balance of capacity, performance and power in a 10K-RPM, 2.5-inch enterprise drive.

### Key Advantages

- Highest-capacity enterprise SFF hard drive (up to 1.2TB)
- PowerChoice™ technology reduces power consumption.
- Protection Information (PI) detects corruption of data in flight between the host system and the drive<sup>4</sup>
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data at rest. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- Compliance or data security initiatives



CAPACITY <sup>1</sup>	5xx NATIVE MODEL	INTERFACE	CACHE
1200GB	ST1200MM0017 <sup>2</sup>	6Gb/s SAS	64MB
1200GB	ST1200MM0027 <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST900MM0026 <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST900MM0036 <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST9900805SS	6Gb/s SAS	64MB
900GB	ST9900705SS <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST9900605SS <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST9900805FC	4Gb/s FC	64MB
600GB	ST600MM0026 <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600205SS	6Gb/s SAS	64MB
600GB	ST9600105SS <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600005SS <sup>2,3</sup>	6Gb/s SAS	64MB
600GB	ST9600205FC	4Gb/s FC	64MB
450GB	ST450MM0026 <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450405SS	6Gb/s SAS	64MB
450GB	ST9450305SS <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450205SS <sup>2,3</sup>	6Gb/s SAS	64MB
450GB	ST9450405FC	4Gb/s FC	64MB
300GB	ST300MM0026 <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300605SS	6Gb/s SAS	64MB
300GB	ST9300505SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300405SS <sup>2,3</sup>	6Gb/s SAS	64MB
300GB	ST9300605FC	4Gb/s FC	64MB

# Cheetah® 15K

The Seagate Cheetah 15K drive provides high performance and reliability in legacy 3.5-inch mission-critical storage.

### Key Advantages

- Sustained data rate of up to 204MB/s
- Industry's highest 3.5-inch drive reliability
- PowerTrim™ technology optimizes power consumption
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Business and transaction processing
- Email and decision support
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)
- Internet and e-commerce



CAPACITY <sup>1</sup>	5xx NATIVE MODEL	INTERFACE	CACHE
600GB	ST3600057SS	6Gb/s SAS	16MB
600GB	ST3600957SS <sup>2</sup>	6Gb/s SAS	16MB
600GB	ST3600857SS <sup>2,3</sup>	6Gb/s SAS	16MB
600GB	ST3600057FC	4Gb/s FC	16MB
450GB	ST3450857SS	6Gb/s SAS	16MB
450GB	ST3450757SS <sup>2</sup>	6Gb/s SAS	16MB
450GB	ST3450657SS <sup>2,3</sup>	6Gb/s SAS	16MB
450GB	ST3450857FC	4Gb/s FC	16MB
300GB	ST3300657SS	6Gb/s SAS	16MB
300GB	ST3300557SS <sup>2</sup>	6Gb/s SAS	16MB
300GB	ST3300457SS <sup>2,3</sup>	6Gb/s SAS	16MB
300GB	ST3300657FC	4Gb/s FC	16MB

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
2 Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries.  
3 FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2011.htm#1635>  
4 Protection Information (PI) feature requires PI-compliant host or controller support.

# Enterprise Capacity 3.5 HDD

The Seagate Enterprise Capacity 3.5 HDDs help data centers meet the demanding growth of unstructured data.

## Key Advantages

- Highest-capacity enterprise drive for maximum density server and storage solutions
- SAS and SATA interfaces with 24x7 reliability
- Predictable 7200-RPM performance even in the most rugged multi-drive environments
- Improved power and cooling efficiencies with low power consumption and on-demand PowerChoice™ technology
- Protect your data and ease data disposal costs and management with the Self-Encrypting Drive (SED) and FIPS 140-2 certified SED<sup>2,3</sup>

## Best-Fit Applications

- High-capacity RAID storage
- Mainstream enterprise external storage (SAN, NAS, DAS)
- Cloud bulk data storage
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance



CAPACITY <sup>1</sup>	5xx NATIVE MODEL	INTERFACE	CACHE
4TB	ST4000NM0033	SATA 6Gb/s	128MB
4TB	ST4000NM0053 <sup>2</sup>	SATA 6Gb/s	128MB
4TB	ST4000NM0073 <sup>2,3</sup>	SATA 6Gb/s	128MB
4TB	ST4000NM0023	6Gb/s SAS	128MB
4TB	ST4000NM0043 <sup>2</sup>	6Gb/s SAS	128MB
4TB	ST4000NM0063 <sup>2,3</sup>	6Gb/s SAS	128MB
3TB	ST3000NM0033	SATA 6Gb/s	128MB
3TB	ST3000NM0053 <sup>2</sup>	SATA 6Gb/s	128MB
3TB	ST3000NM0023	6Gb/s SAS	128MB
3TB	ST3000NM0043 <sup>2</sup>	6Gb/s SAS	128MB
3TB	ST3000NM0063 <sup>2,3</sup>	6Gb/s SAS	128MB
2TB	ST2000NM0033	SATA 6Gb/s	128MB
2TB	ST2000NM0053 <sup>2</sup>	SATA 6Gb/s	128MB
2TB	ST2000NM0023	6Gb/s SAS	128MB
2TB	ST2000NM0043 <sup>2</sup>	6Gb/s SAS	128MB
2TB	ST2000NM0063 <sup>2,3</sup>	6Gb/s SAS	128MB
1TB	ST1000NM0033	SATA 6Gb/s	128MB
1TB	ST1000NM0053 <sup>2</sup>	SATA 6Gb/s	128MB
1TB	ST1000NM0023	6Gb/s SAS	128MB
1TB	ST1000NM0043 <sup>2</sup>	6Gb/s SAS	128MB
1TB	ST1000NM0063 <sup>2,3</sup>	6Gb/s SAS	128MB

# Constellation®

The Seagate Constellation drive is the only 2.5-inch enterprise-class hard drive delivering both 1TB capacities and enterprise reliability.

## Key Advantages

- Maximizes data center footprint
- Energy-efficient storage at under 3.9W (idle)
- Highest nearline reliability with an MTBF of 1.4M hours
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

## Best-Fit Applications

- Storage-hungry business applications
- Storage area networks and network attached storage
- Maximum-capacity servers and blade servers
- Rich media content storage
- Enterprise backup and restore—D2D, virtual tape
- Cloud computing



CAPACITY <sup>1</sup>	5xx NATIVE MODEL	INTERFACE	CACHE
1TB	ST91000640NS	SATA 6Gb/s	64MB
1TB	ST91000641NS <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST91000642NS <sup>2,4</sup>	SATA 6Gb/s	64MB
1TB	ST91000640SS	6Gb/s SAS	64MB
1TB	ST91000641SS <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST91000642SS <sup>2,4</sup>	6Gb/s SAS	64MB
500GB	ST9500620NS	SATA 6Gb/s	64MB
500GB	ST9500621NS <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST9500622NS <sup>2,4</sup>	SATA 6Gb/s	64MB
500GB	ST9500620SS	6Gb/s SAS	64MB
500GB	ST9500621SS <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST9500622SS <sup>2,4</sup>	6Gb/s SAS	64MB
250GB	ST9250610NS	SATA 6Gb/s	64MB
250GB	ST9250611NS <sup>2</sup>	SATA 6Gb/s	64MB
250GB	ST9250612NS <sup>2,4</sup>	SATA 6Gb/s	64MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2011.htm#1635>



# Terascale™ HDD Constellation® CS

The Seagate Terascale HDD and Constellation CS are designed for large Web-scale data centers where low-cost, low-power and high-capacity storage is critical.

### Key Advantages

- Affordable storage for 24x7 multi-drive replicated environments
- High vibration tolerance for reliable enterprise-class performance
- Low power and cooling costs with the lowest 3.5-inch enterprise drive operating power
- Advanced format logical block management for industry-leading data integrity

### Best-Fit Applications

- Web-scale computing
- Cloud storage servers and arrays
- Cloud backup storage
- Direct-attached external storage (DAS)
- Network-attached storage (NAS)



CAPACITY¹	5xx EMULATION MODEL	INTERFACE	CACHE
4TB	ST4000NC000²	SATA 6Gb/s	64MB
4TB	ST4000NC001	SATA 6Gb/s	64MB
3TB	ST3000NC002	SATA 6Gb/s	64MB
3TB	ST3000NC000²	SATA 6Gb/s	64MB
2TB	ST2000NC001	SATA 6Gb/s	64MB
2TB	ST2000NC000²	SATA 6Gb/s	64MB
1TB	ST1000NC001	SATA 6Gb/s	64MB
1TB	ST1000NC000²	SATA 6Gb/s	64MB



1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
2 Seagate Instant Secure Erase Model



# Desktop Storage Solutions

Seagate has a distinguished history in consistently delivering innovative technologies, super-sized capacities, low power and blazing-fast performance. Seagate desktop drives offer excellent performance at all levels.



	DESKTOP SSHD	DESKTOP SHDD INTERNAL KIT	DESKTOP HDD	DESKTOP 3.5 INCH INTERNAL KIT
Legacy Name			Barracuda®	Barracuda
Application	Performance	Performance	Mainstream	Mainstream
Description	Solid state hybrid drive delivers SSD-like performance without sacrificing capacity	The easy way to upgrade or add storage capacity to desktop computers to get solid state speed for fast, responsive system performance	Tuned performance for low-power, mainstream and high-performance desktop computing	The fast, powerful and easy way to upgrade or add storage capacity to desktop computers
Capacity¹	1TB to 4TB	1TB to 4TB	250GB to 4TB	500GB to 4TB
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 3Gb/s, SATA 6Gb/s
Form Factor	3.5 inch	3.5 inch	3.5 inch	3.5 inch
Reliability	<1% AFR	<1% AFR	<1% AFR	<1% AFR
Cache	64MB	64MB	16MB to 64M	16MB to 64M
Power (Idle)	<3.3W to <3.9W	<3.3W to <3.9W	4.0W to 5.8W	
Product	Desktop SSHD	Desktop SHDD Internal Kit	Desktop HDD	Desktop 3.5 Inch Internal Kit
OptiCache™ Technology			X	X
Solid State Hybrid	X	X		
Mounting Hardware and Cables		X		X
Compatible with Windows 8²	X	X	X	X
Energy-Saving Features	X	X	X	X
RoHS Compliance	X	X	X	X

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
2 For a complete list of Seagate products that are compatible with Windows 8, visit <http://www.microsoft.com/en-us/windows/compatibility/win8/CompatCenter/Home>

## Desktop SSHD

Seagate Desktop SSHD (solid state hybrid drive) delivers SSD-like performance and massive capacities at an affordable price.

### Key Advantages

- First SSHD in a 3.5-inch form factor
- SATA 6Gb/s with NCQ for interface speed
- Up to 3x faster than a traditional HDD<sup>2</sup>
- All-in-one design for ease of installation
- Installs and operates like a standard hard drive
- Massive 1TB or 2TB capacities combined with SSD-like performance<sup>2</sup>

### Best-Fit Applications

- Desktop PCs
- Workstations
- High-performance direct-attached storage (DAS) devices



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
4TB	ST2000DX001	SATA 6Gb/s	64MB
2TB	ST2000DX001	SATA 6Gb/s	64MB
1TB	ST1000DX001	SATA 6Gb/s	64MB

## Desktop HDD

Seagate Desktop HDDs give you the Power of One with 1TB-per-disk technology and one drive platform for every capacity and application.

### Key Advantages

- Up to 4TB capacity
- AcuTrac™ and OptiCache™ technologies deliver dependable overall performance.
- Free Seagate DiscWizard™ software

### Best-Fit Applications

- Desktop or all-in-one PCs and home servers
- PC-based gaming systems
- Direct-attached external storage devices (DAS)



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
4TB	ST4000DM000	SATA 6Gb/s NCQ	64MB
3TB	ST3000DM001	SATA 6Gb/s NCQ	64MB
2TB	ST2000DM001	SATA 6Gb/s NCQ	64MB
1TB	ST1000DM003	SATA 6Gb/s NCQ	64MB
500GB	ST500DM002	SATA 6Gb/s NCQ	16MB
320GB	ST320DM000	SATA 6Gb/s NCQ	16MB
250GB	ST250DM000	SATA 6Gb/s NCQ	16MB

## Desktop 3.5-Inch Internal Kit

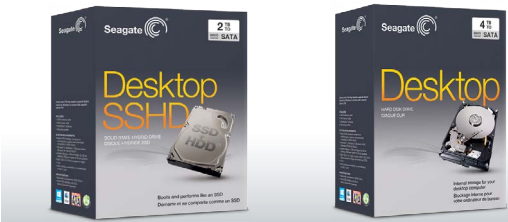
Seagate 3.5-inch internal drives are the fast, powerful, and easy way to upgrade or add storage capacity to desktop computers.

### Key Advantages

- Quiet, ultra-high performance
- DiscWizard™ software makes installation a snap
- Built-in self-monitoring technology helps ensure maximum reliability
- Desktop solid state hybrid model offers SSD-like performance with the capacity of a hard drive

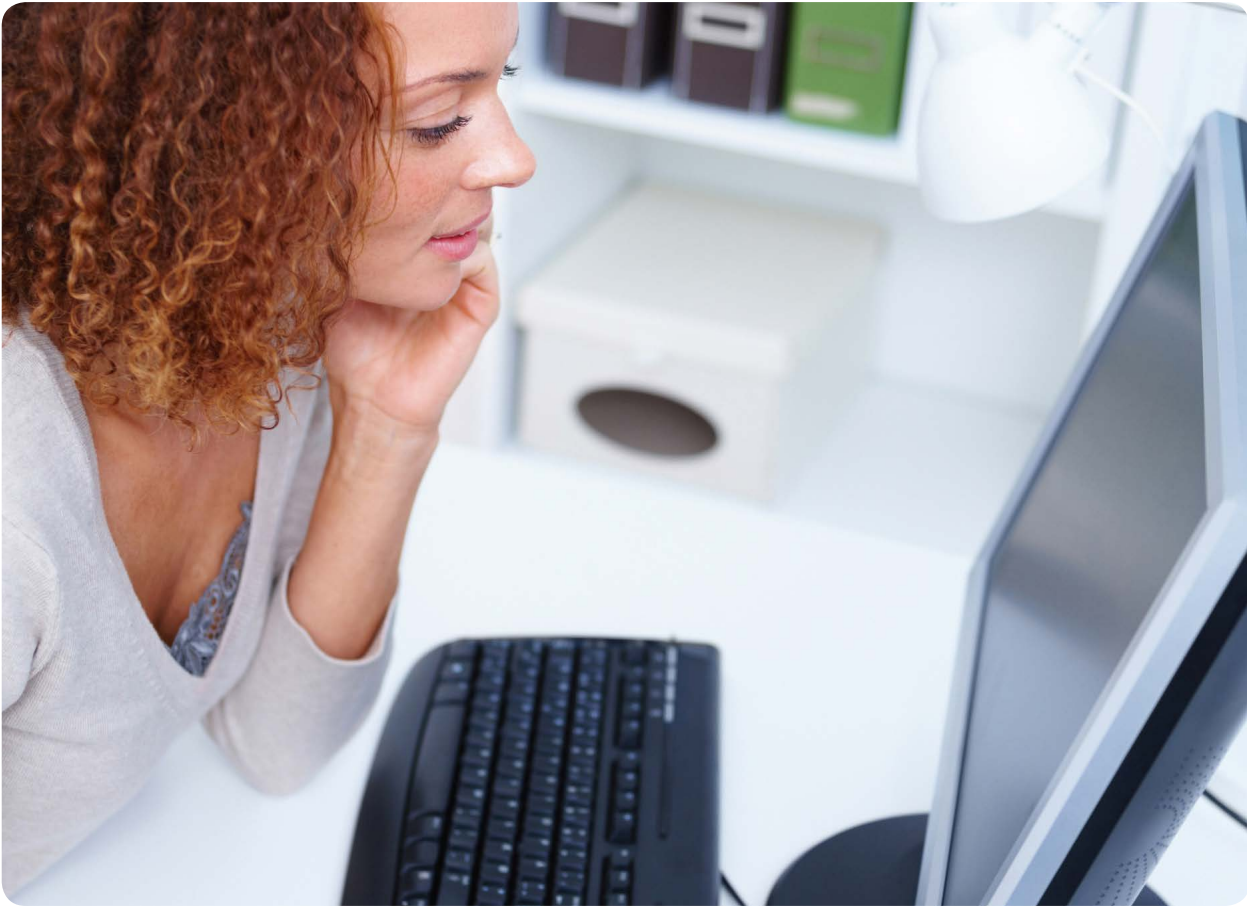
### Best-Fit Applications

- Gaming PCs
- Workstations
- High-end PCs
- Desktop RAID
- Mainstream/office PCs



CAPACITY <sup>1</sup>	KIT NUMBER <sup>3</sup>	INTERFACE	CACHE
4TB	STBD4000400	SATA 6Gb/s	64MB
3TB	STBD3000100	SATA 6Gb/s	64MB
2TB	STBD2000101	SATA 6Gb/s	64MB
1TB	ST310005N1A1AS-RK	SATA 6Gb/s	64MB
500GB	ST3500641AS-RK	SATA 3Gb/s	64MB
PACKAGE DIMENSIONS	7.38-in L x 5.88-in W x 2.88-in D (187mm x 149mm x 73mm)		

DESKTOP SSHD MODEL			
CAPACITY <sup>1</sup>	KIT NUMBER <sup>3</sup>	INTERFACE	MLC FLASH
2TB	STCL2000400	SATA 6Gb/s	8GB
PACKAGE DIMENSIONS	5.88-in L x 7.38-in W x 2.88-in D (149.35mm x 187.45mm x 73.15mm)		



<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Performance may vary depending on user's hardware configuration and operating system.  
<sup>3</sup> U.S. model numbers shown



# Mobile Storage Solutions

Seagate laptop and tablet drives address every mobile market need, delivering superior performance, reliability and value. Feature-rich with innovative options, the Seagate mobile lineup also includes self-encryption and FIPS 140-2 validated models.



	LAPTOP SSHD AND LAPTOP THIN SSHD	LAPTOP SSHD INTERNAL KIT	LAPTOP 2.5-INCH INTERNAL KIT	MOMENTUS® THIN	LAPTOP ULTRATHIN HDD	ULTRA MOBILE HDD
Product Comparison	Legacy Name	Momentus XT	Momentus XT	Momentus Internal Kit		
	Application	Performance	Performance	Performance	Mainstream, Slim Computing	Slim Computing
	Description	Solid state hybrid drives deliver SSD-like performance without sacrificing capacity	The easy way to upgrade or add storage capacity to laptop computers to get solid state speed with capacity of a hard disk drive	A complete upgrade kit to transform your system to high performance or just add capacity	The 2.5-inch drive for laptops and notebooks	Affordable, high-capacity storage that is thinner than a pencil
	Capacity <sup>1</sup>	500GB and 1TB	500GB and 1TB	250GB and 1TB	250GB, 320GB and 500GB	320GB and 500GB
	Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
	Form Factor/ z-Height	2.5-inch/ 9.5mm, 7mm	2.5-inch/ 9.5mm, 7mm	2.5-inch/9.5mm	2.5-inch/7mm	2.5-inch/5mm
	Reliability	0.48% AFR	0.48% AFR	0.48% AFR	0.48% AFR	
	Cache	64MB	64MB	16MB	16MB	16MB
	Power (Idle)	0.9W	0.9W	0.67W to 0.81W	0.45W	0.48W
	Product	Laptop SSHD and Laptop Thin SSHD	Laptop SSHD Internal Kit	Laptop 2.5-Inch Internal Kit	Momentus® Thin	Laptop Ultrathin HDD
Feature Comparison	Self-Encrypting Drive (SED) with Instant Secure Erase <sup>2</sup>				X	X
	FIPS 140-2 SED Option <sup>2,3</sup>				X	
	Drop Sensor Options					X
	Solid State Hybrid	X	X			
	Compatible with Windows 8 <sup>4</sup>	X	X	X	X	X
	Energy-Saving Features	X	X		X	X
	RoHS Compliance	X	X	X	X	X

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive models may require TCG-compliant host or controller support.  
<sup>3</sup> Some FIPS in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.  
<sup>4</sup> For a complete list of Seagate products that are compatible with Windows 8, visit <http://www.microsoft.com/en-us/windows/compatibility/win8/CompatCenter/Home>

# Laptop SSHD and Laptop Thin SSHD

The Seagate Laptop SSHD (1TB) and Laptop Thin SSHD (500GB) enable laptop PC users to enjoy solid state performance without sacrificing capacity.

## Key Advantages

- Boots and performs like an SSD<sup>2</sup>
- Up to 4x faster than a traditional HDD<sup>2</sup>
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works in any laptop or PC, any OS and any application
- Backed by a 3-year limited warranty

## Best-Fit Applications

- Laptops and mobile workstations
- Desktop and tower workstations
- High-performance laptop and desktop gaming systems
- Small form factor all-in-one PCs



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
1TB	ST1000LM014	SATA 6Gb/s	64MB
500GB	ST500LM000	SATA 3Gb/s	64MB

# Laptop Ultrathin HDD


The Seagate Laptop Ultrathin HDD is one of the thinnest and lightest laptop hard drives—5mm, 3.3 oz. and thinner than a pencil.

## Key Advantages

- Affordable, high-capacity storage gives system builder options when integrating low profile storage into slim laptop and ultrabook solutions
- Compatible with every portable PC with a standard SATA 6Gb/s interface
- Get industry-leading cost-per-GB and cost-per-millimeter
- Seagate Secure™ Self-Encrypting Drive options<sup>3</sup>

## Best-Fit Applications

- Slim laptops or ultrabooks
- Extending high-capacity, affordable storage into other applications and slim devices
- Backup storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
500GB	ST500LT032	SATA 6Gb/s	16MB
500GB	ST500LT033 <sup>3</sup>	SATA 6Gb/s	16MB
320GB	ST320LT030	SATA 6Gb/s	16MB

# Momentus® Thin


The 7mm, 2.5-inch drive enables slim computing for all types of mobile computing, from laptops to netbooks to smaller desktop PCs.

## Key Advantages

- 7mm z-height form factor enables thin chassis design for all segments of laptop computing.
- Seagate SmartAlign™ technology provides a transition to 4K sectors without the need for software utilities.
- Self-Encrypting Drive<sup>3</sup> options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>4</sup> are government-approved for the U.S. and Canadian governments.

## Best-Fit Applications

- Thin entry-level laptop PCs
- Thin high-end netbooks
- Thin ultraportables



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
500GB	ST500LT025 <sup>3,5</sup>	SATA 6Gb/s	16MB
500GB	ST500LT015 <sup>4,5</sup>	SATA 6Gb/s	16MB
500GB	ST500LT012	SATA 6Gb/s	16MB
320GB	ST320LT012 <sup>5</sup>	SATA 6Gb/s	16MB
250GB	ST250LT012 <sup>5</sup>	SATA 6Gb/s	16MB

# Ultra Mobile HDD


Just 5mm thin and supported by a stainless steel design, the Seagate Ultra Mobile HDD is ready for mobility.

## Key Advantages

- 500GB brings 7x more space to tablet applications at a fraction of the cost.
- Zero-gravity sensors provide extra drop protection.
- Improved shock and tolerance for gyroscopic motion supports even the intense maneuvers of gamers.
- Just 3.3 oz—about the weight of a lightbulb
- Couple with the Seagate Mobile Enablement Kit's Dynamic Data™ Driver for robust and responsive storage with no compromise to system battery life.

## Best-Fit Applications

- Tablets
- Convertible and detachable storage
- Ultra-mobile, ultra-portable storage expansion apps



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
500GB	ST500LT035	SATA 6Gb/s	16MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Performance may vary depending on user's hardware configuration and operating system. Testing performed on a Laptop SSHD 1TB and a Laptop Thin SSHD 500GB.  
<sup>3</sup> Self-Encrypting Drives (SED) are not available in all models or countries. May require TCG-compliant host or controller support.  
<sup>4</sup> See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmp/documents/140-1/1401vend.htm>.  
<sup>5</sup> SmartAlign technology is not available on this model.



# Laptop 2.5-Inch Internal Kit


Seagate 2.5-inch internal drives deliver vast amounts of storage for adding capacity or upgrading drives in laptop computers.

## Key Advantages

- Built for mobility
- Preserves battery life
- Large data cache
- Outstanding performance
- Laptop solid state hybrid model offers SSD-like performance with the capacity of a hard drive.

## Best-Fit Applications

- Replacement laptop drives
- Laptop storage upgrades
- High-end laptops and workstations

			
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	CACHE
1TB	STBD1000100	SATA 3Gb/s	8MB
500GB	ST905003N3A1AS-RK	SATA 3Gb/s	16MB
500GB	ST905003N1A1AS-RK	SATA 3Gb/s	8MB
250GB	ST90250N1A1AS-RK	SATA 3Gb/s	8MB
PACKAGE DIMENSIONS	6.25-in L x 4.75-in W x 2.25-in D (159mm x 121mm x 57mm)		

LAPTOP SSHD MODEL			
CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	MLC FLASH
1TB	STBD1000400	SATA 6Gb/s	8GB
PACKAGE DIMENSIONS	6.25-in L x 4.75-in W x 2.25-in D (159mm x 121mm x 57mm)		



# Specialty Storage Solutions

Storage solutions for NAS, DVRs and surveillance systems

Seagate has the expertise to build drives optimized for specialty environments, like Network Attached Storage (NAS), CE and video storage. Our global presence, business partnerships, technology leadership and industry understanding enable Seagate to deliver industry-leading products.



	NAS HDD	SV35 SERIES™	VIDEO 3.5 HDD	VIDEO 2.5 HDD
Legacy Name			Pipeline® HD	Pipeline HD Mini
Application	Small NAS	Video Surveillance	Mainstream CE-DVR	Small form factor CE-DVR
Description	Best-performing, highest-capacity storage for 1 - to 5-bay NAS systems	Optimized performance and improved reliability for video surveillance applications	Cool, quiet, low-power performance—perfect for high-definition consumer DVR applications	Cool, quiet, low power—perfect for small form factor and power-sensitive designs
Capacity¹	2TB to 4TB	1TB to 3TB	250GB to 4TB	250GB to 500GB
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 3Gb/s, SATA 6Gb/s	SATA 3Gb/s
Form Factor	3.5-inch	3.5-inch	3.5-inch	2.5-inch
Simultaneous HD Streams Supported	—	—	up to 16	up to 12
Reliability	1M hours MTBF	<1% AFR	0.55% AFR	0.55% AFR
Cache	64MB	64MB	8MB to 64MB	16MB
Power (Idle)	3.0W to 3.95W	3.36W to 5.4W (Idle2)	2.5W to 5.0W	0.66W
Product	NAS HDD	SV35 Series	Video 3.5 HDD	Video 2.5 HDD
Cool Operation		x	x	x
24x7 Operation Capable	x	x	x	x
Extremely Low Vibration	x			
NASWorks™ Technology	x			
Energy-Saving Features	x		x	x
RoHS Compliance	x	x	x	x

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

## NAS HDD


The Seagate NAS HDD fine-tunes the needs of 1- to 5-bay NAS systems to provide industry-leading performance and highest-capacity storage.

### Key Advantages

- NASWorks™ technology supports custom error recovery controls, power management and vibration tolerance.
- NAS error recovery controls help to ensure drives are not dropped from the NAS and sent into a RAID rebuild.
- Improved vibration tolerance and emission in multi-drive systems with dual-plane balance
- Advanced power management supports multiple power profiles for low-power, 24x7 performance.

### Best-Fit Applications

- Home servers or desktop NAS solutions
- Small-business file sharing
- Backup servers



CAPACITY¹	MODEL	INTERFACE	CACHE
4TB	ST4000VN000	SATA 6Gb/s	64MB
3TB	ST3000VN000	SATA 6Gb/s	64MB
2TB	ST2000VN000	SATA 6Gb/s	64MB

## Video 3.5 HDD


Seagate Video 3.5 HDDs deliver unprecedented levels of acoustic, power and vibration performance with room for hundreds of your favorite movies.

### Key Advantages

- Quiet drive operation to enhance customer viewing and listening experiences
- 75°C, 24-hour operation capable
- Operational power consumption as low as 3.4W
- 2.0A spin-up current limited

### Best-Fit Applications

- Consumer digital video recorders
- Media servers and centers
- Home theater PCs and servers
- Cable, satellite and IPTV set-top boxes



CAPACITY¹	MODEL	INTERFACE	CACHE
4TB	ST4000VM000	SATA 6Gb/s	64MB
3TB	ST3000VM002	SATA 6Gb/s	64MB
2TB	ST2000VM003	SATA 6Gb/s	64MB
1TB	ST1000VM002	SATA 6Gb/s	64MB
500GB	ST3500312CS	SATA 3Gb/s	8MB
320GB	ST3320311CS	SATA 3Gb/s	8MB
250GB	ST3250312CS	SATA 3Gb/s	8MB

## SV35 Series™


The Seagate SV35 series drives optimize performance, save power and improve reliability for video surveillance applications.

### Key Advantages

- Higher areal density for cost-effective DVR applications
- Performance-tuned for seamless video applications
- Enterprise-class reliability for 24x7 video surveillance applications
- Built-in error recovery for non-stop streaming

### Best-Fit Applications

- Video surveillance digital video recorder
- Video surveillance network digital video recorder
- Direct-attached JBOD video surveillance storage
- Network-attached JBOD video storage



CAPACITY¹	MODEL	INTERFACE	CACHE
3TB	ST3000VX000	SATA 6Gb/s	64MB
2TB	ST2000VX000	SATA 6Gb/s	64MB
1TB	ST1000VX000	SATA 6Gb/s	64MB

## Video 2.5 HDD


Seagate Video 2.5 HDDs let you stream, record and play back your video content with unparalleled reliability and performance.

### Key Advantages

- Virtually silent streaming performance as low as 19dB
- Built for 24x7 operation and low power consumption
- Small, 2.5-inch form factor allows system cost reduction and operational power savings
- Fanless design allows flexibility in a sleek system design.
- 0.55% AFR supports longevity in demanding consumer electronic environments.

### Best-Fit Applications

- DVR and media center applications
- Home theater PCs
- Karaoke and audio jukeboxes
- Cable, satellite and IPTV set-top boxes
- In-camera or surveillance systems



CAPACITY¹	MODEL	INTERFACE	CACHE
500GB	ST500VT000	SATA 3Gb/s	16MB
320GB	ST320VT000	SATA 3Gb/s	16MB
250GB	ST250VT000	SATA 3Gb/s	16MB



## Partner Resources and Benefits

The Seagate Partner Program (SPP) provides access to unique resources and benefits to help channel partners secure new opportunities and grow revenue and profitability.

**As a registered SPP member, you enjoy the following exclusive features:**

- Password-protected portal
- E-newsletter and regular news updates
- New product evaluation unit program
- Training and sales tools
- Priority support

**Start reaping the rewards of SPP membership—register today at [www.seagate.com/www/partners](http://www.seagate.com/www/partners)**

- Complete the online form.
- Click through and accept our standard agreement.

Seagate   
Partner Program

## Service and Support

For information regarding products and services, visit [www.seagate.com/about/contact-us/technical-support](http://www.seagate.com/about/contact-us/technical-support)

### Available services include:

- Presales and Technical Support
- Global Support Services telephone numbers and business hours
- Authorized Seagate Service Centers

For information regarding Warranty Support, visit [www.seagate.com/support/warranty-and-returns](http://www.seagate.com/support/warranty-and-returns)

For information regarding Data Recovery Services, visit [www.seagate.com/services-software/](http://www.seagate.com/services-software/)

For Seagate OEM and Distribution partner portal, visit [www.seagate.com/www/partners](http://www.seagate.com/www/partners)

For Seagate reseller portal, visit [www.seagate.com/www/partners](http://www.seagate.com/www/partners)







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